TC-200

SPECIFICATIONS

Up to Serial No. 141,954

Power Requirements: 70 W
117 V, 60 Hz

Track System: Four-track stereo or mono

Reel Size: 7" (18 cm) maximum

Tape Speeds: 7½ ips and 3¾ ips
(19 cm/s and 9.5 cm/s)

Recording Time: (with 1,800 ft tape)

Tape speed	4-track stereo	4-track mono
7½ ips (19 cm/s)	3 hrs	6 hrs

Frequency Response: 50 ~ 14,000Hz at 7½ ips (19 cm/s)

Signal-to-Noise Ratio: 46 dB or better

Flutter and Wow: 0.19% at 7½ ips (19 cm/s)

Power Output: 1.5 W maximum per channel

Recording Bias Frequency: Approx. 55 kHz

Inputs: Two MIC inputs
Impedance : 600Ω
Maximum
sensitivity : 0.154mV (-74 dB)
Two AUX INputs
Impedance : 300 kΩ
Maximum
sensitivity : 110 mV (-17 dB)

Outputs: Two LINE OUTputs
Impedance : 100kΩ or more
Output level : 2.63 V (10.5 dB)
MONITOR output
Impedance : 8 Ω load or more
Output level : 2.83 V (11.2 dB) with 10kΩ load

Speaker: Two 6½" (160mm) dynamic speakers
Voice coil impedance : 8 Ω

Vacuum Tubes: 5 pcs.

Semiconductors: 2 transistors and 3 diodes

Dimensions: 15 (W) x 8 15/16 (H) x 15⅞" (D)
(380 x 227 x 404 mm)

Weight: 27 lb 8 oz (12.5 kg)

Serial No. 141,955 and later

Power Requirements: Approx. 50W
117 V, 60 Hz

Track System: Four-track stereo or mono

Reel Size: 7" (18 cm) maximum

Tape Speeds: 7½ ips and 3¾ ips
(19 cm/s and 9.5 cm/s)

Recording Time: (with 1,800 ft tape)

Tape speed	4-track stereo	4-track mono
7½ ips (19 cm/s)	3 hrs	6 hrs

Frequency Response: 30~17,000 Hz at 7½ ips (19 cm/s)
30~13,000 Hz at 3¾ ips (9.5 cm/s)

Signal-to-Noise Ratio: 46 dB or better

Flutter and Wow: 0.2% at 7½ ips (19 cm/s)

Power Output: 4W maximum per channel

Recording Bias Frequency: Approx. 55 kHz

Inputs: Two MIC inputs
Impedance : 600Ω
Maximum
sensitivity : 0.775 mV (-60 dB)
Two AUX INputs
Impedance : 300 kΩ
Maximum
sensitivity : 110mV (-17 dB)

Outputs: Two LINE OUTputs
Impedance : 100kΩ or more
Output level: 2.63 V (10.5dB)
SPEAKER output
Impedance : 8Ω load or more

Speaker: Two 6½" (160 mm) dynamic speakers

Semiconductors: 18 transistors and 4 diodes

Dimensions: 15 (W) x 8 15/16 (H) x 15⅞ (D)
(380 x 227 x 404 mm)

Weight: 25 lb (11.5 kg)

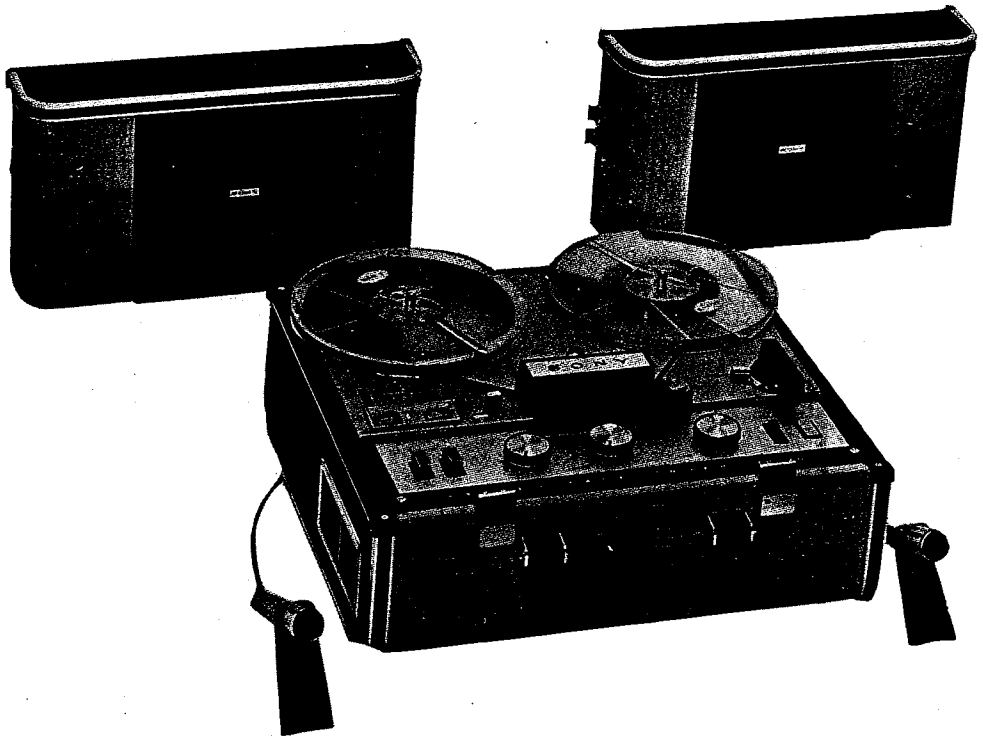
SONY®
SERVICE MANUAL

TABLE OF CONTENTS

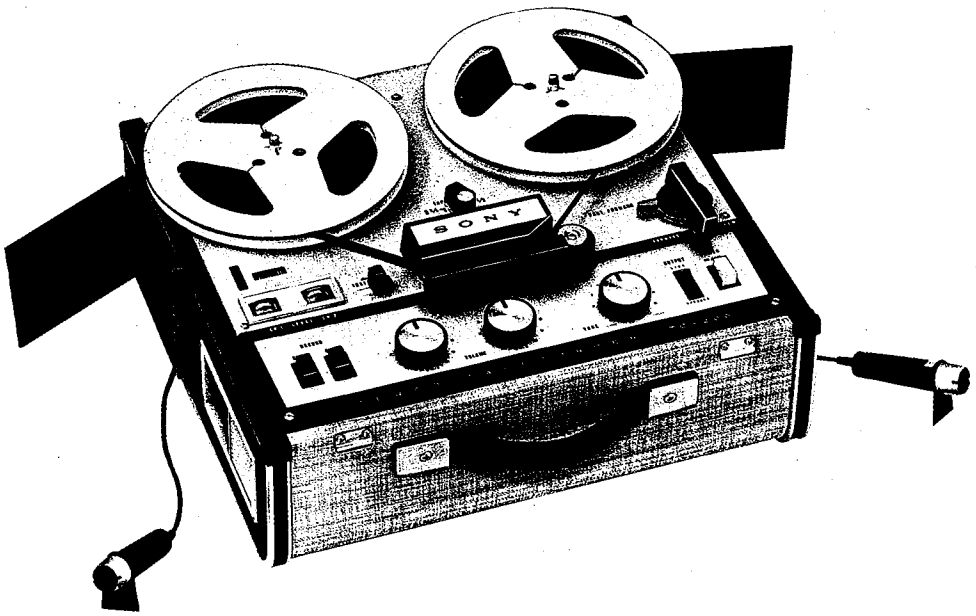
	Page
SPECIFICATIONS	1
GENERAL DESCRIPTION	2
APPEARANCE	3 ~ 4
BLOCK DIAGRAM	5
CABINET TOP VIEW	6
CHASSIS TOP VIEW	6
CHASSIS BOTTOM VIEW	7
DISASSEMBLY	8
SCHEMATIC DIAGRAM (Up to Serial No. 61,800)	9 ~ 10
MOUNTING DIAGRAM (,,)	11 ~ 12
SCHEMATIC DIAGRAM (Serial No. from 61,800 to 74,999)	13 ~ 14
MOUNTING DIAGRAM (,,)	15 ~ 16
SCHEMATIC DIAGRAM (Serial No. from 75,000 to 80,000)	17 ~ 18
MOUNTING DIAGRAM (,,)	19 ~ 20
SCHEMATIC DIAGRAM (Serial No. from 80,001 to 141,954)	21 ~ 22
MOUNTING DIAGRAM (,,)	23 ~ 24
SCHEMATIC DIAGRAM (Serial No. 141,955 and later)	25 ~ 26
MOUNTING DIAGRAM (,,)	
Preamplifier Circuit Board	27 ~ 28
Main Amplifier Circuit Board	29 ~ 32
Power Supply & Bias OSC Circuit Board	33 ~ 34
ELECTRICAL ADJUSTMENT	
(Up to Serial No. 141,954)	35
(Serial No. 141,955 and later)	36
LUBRICATION	37
MECHANICAL ADJUSTMENT	38 ~ 40
EXPLODED VIEW	
(Up to Serial No. 74,999)	41 ~ 46
(Serial No. from 75,000 to 80,000)	47 ~ 51
(Serial No. from 80,001 to 141,954)	52 ~ 58
(Serial No. 141,955 and later)	59 ~ 65
Hardware Nomenclature	66

APPEARANCE

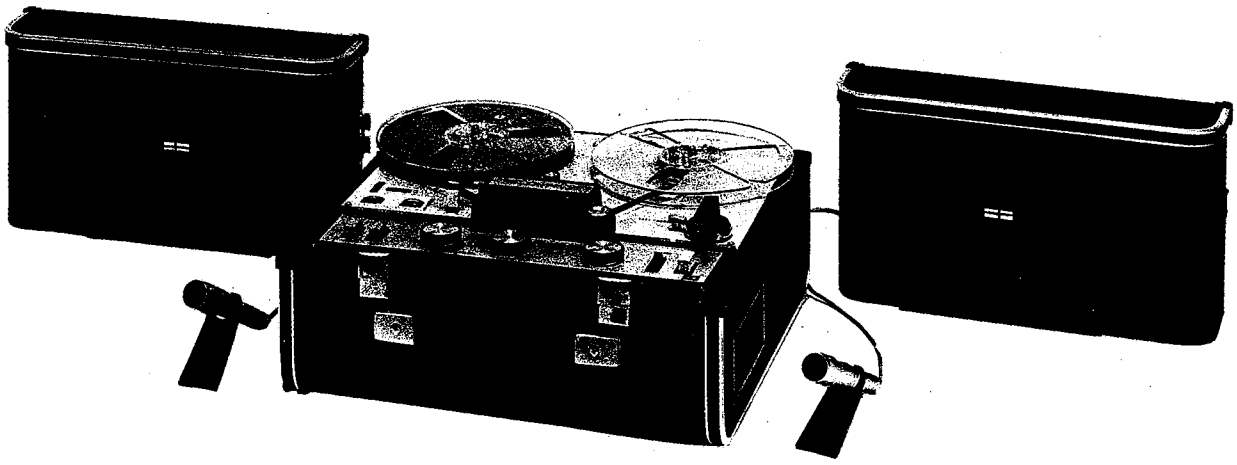
Serial No. from 1,001 to 74,999



Serial No. from 75,000 to 80,000



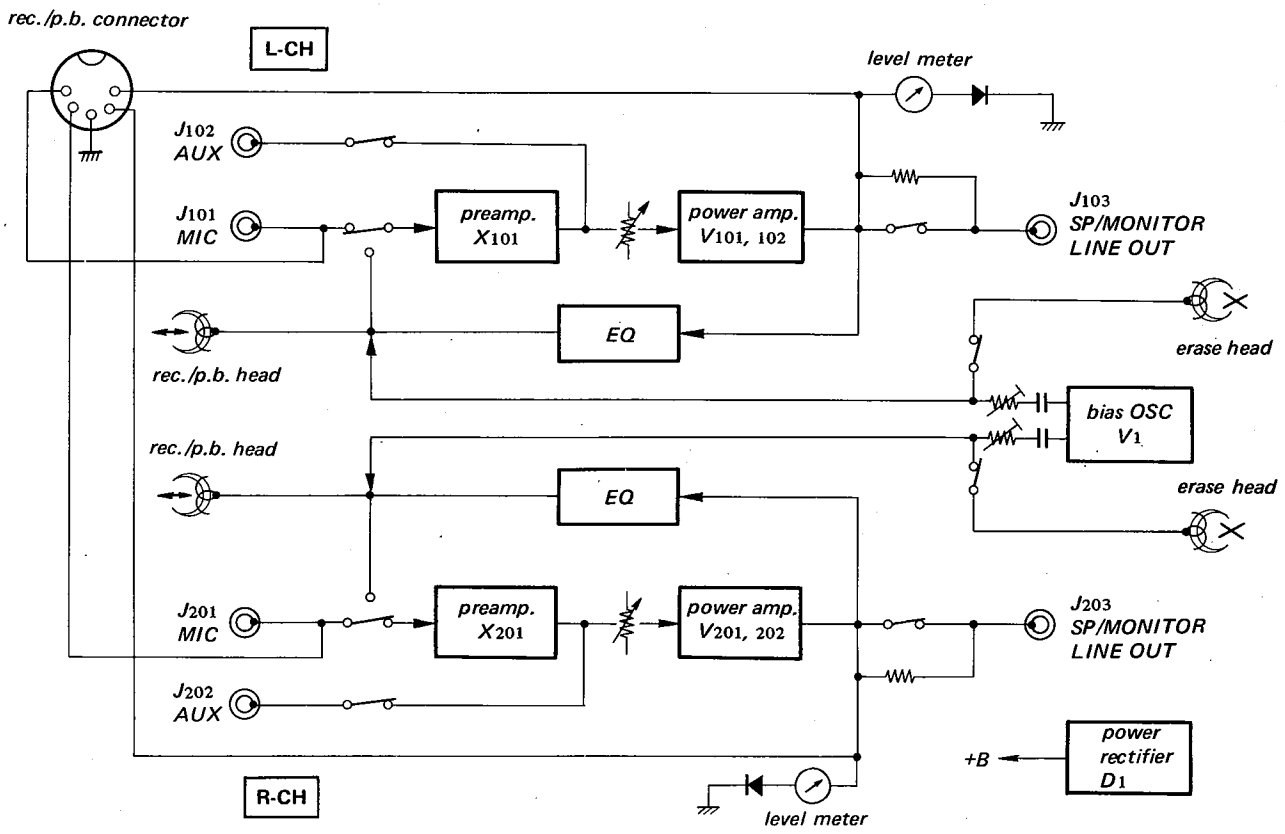
Serial No. from 80,001 to 141,954



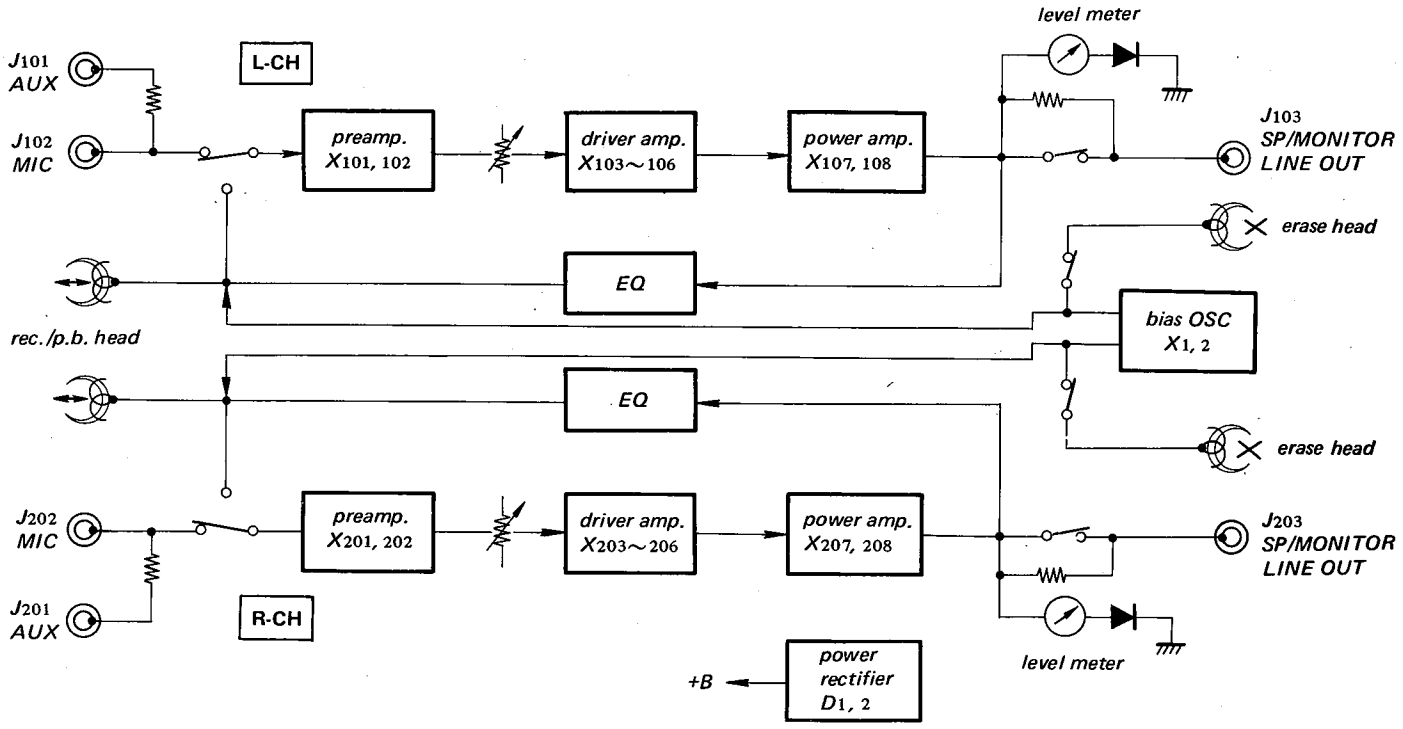
Serial No. 141,955 and later

BLOCK DIAGRAM

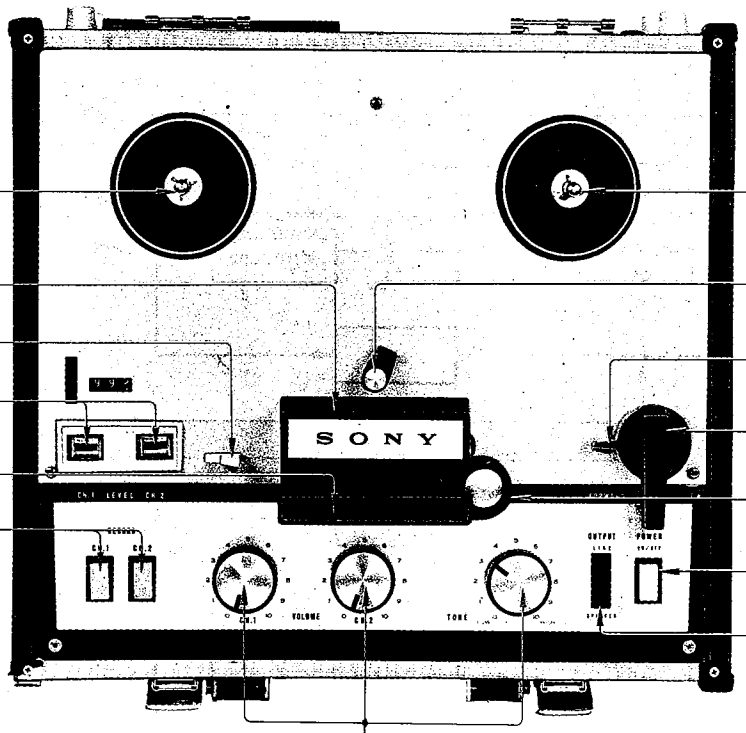
Up to Serial No. 141,954



Serial No. 141,955 and later

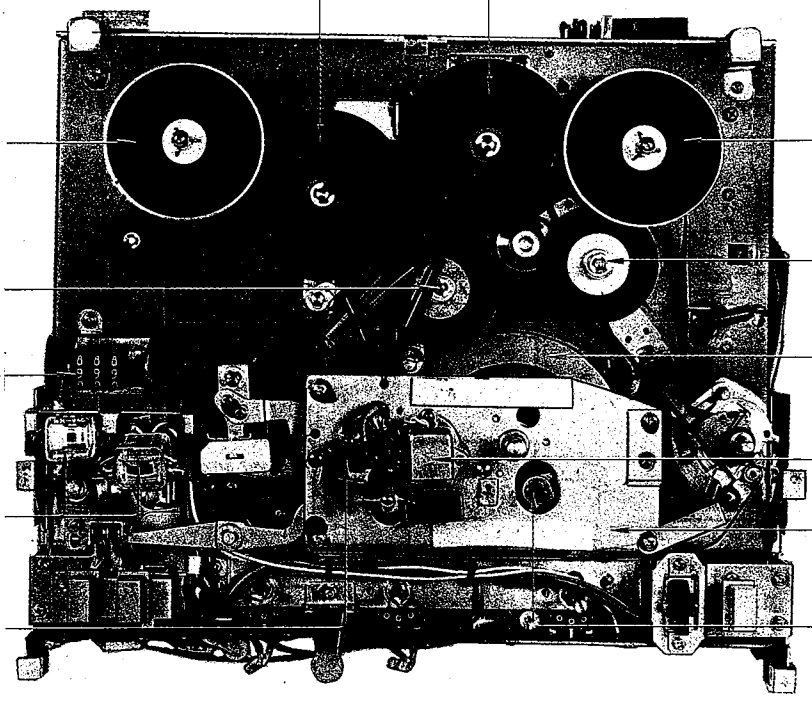


CABINET TOP VIEW



reel table ass'y, supply (A34)
head cover (A) ass'y (A13)
knob, instant stop (189)
level meter (E22)
head cover (B) (20)
push button ass'y, record (A10)
(A35) reel table ass'y, take-up
(A33) knob ass'y, speed selector
(208) lever, fast forward
(207) knob, function selector
(A30) pinch roller ass'y
(A11) button ass'y, power ON/OFF
(E12) switch, line/speaker
(A7) control knob ass'y

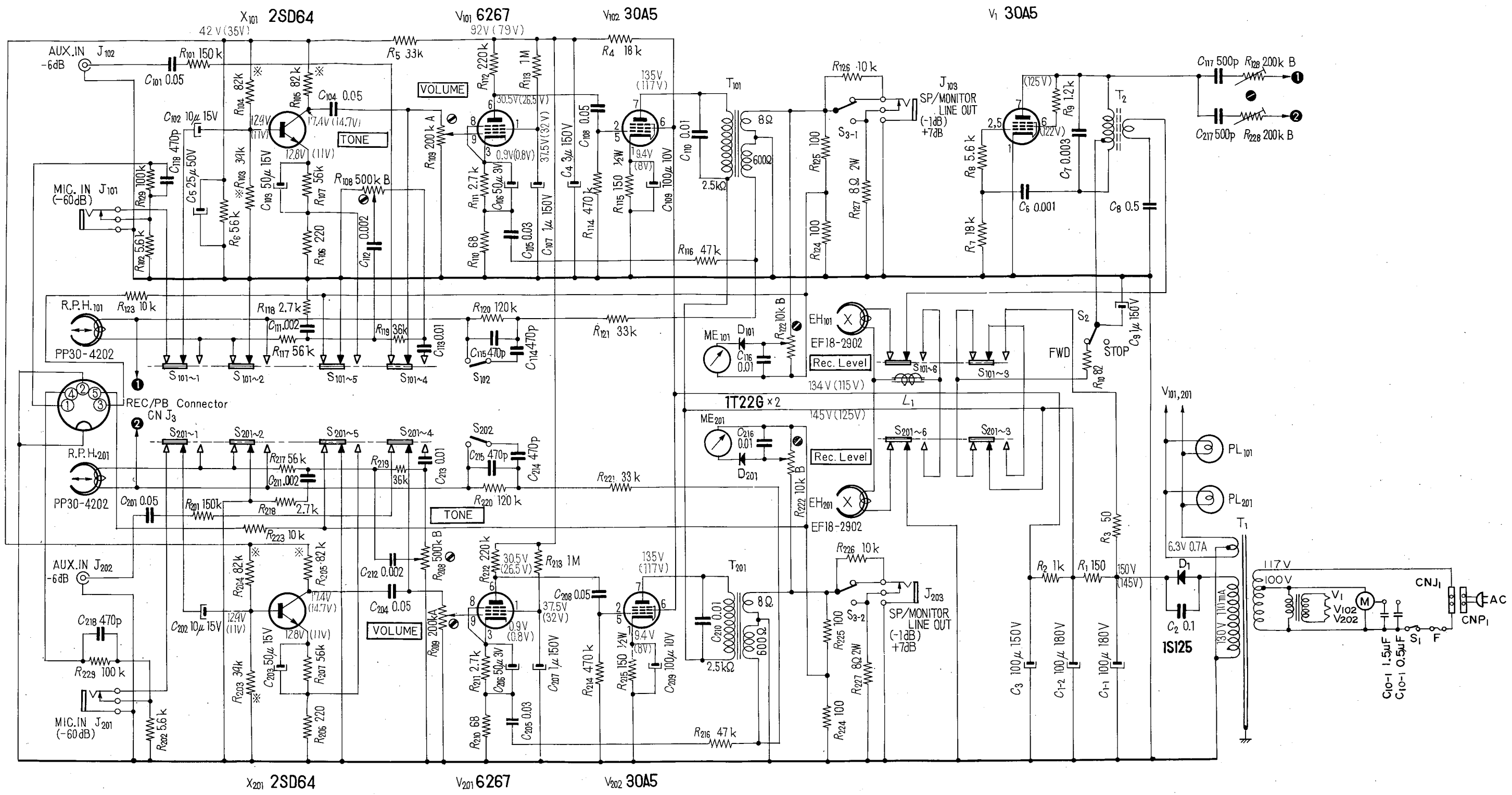
CHASSIS TOP VIEW



idler ass'y, rewind (A24)
reel table ass'y, supply (A34)
idler ass'y, caps an (A20)
tape index counter (224)
level meter (E22)
erase head (E15)
(A24) idler ass'y, rewind
(A35) reel table ass'y, take-up
(A23) idler ass'y, take-up
(A25) flywheel ass'y
(E14) rec./p.b. head
(A16) head deck ass'y
(A19) pinch lever ass'y

SCHEMATIC DIAGRAM

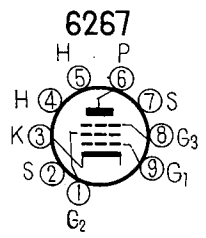
Up to Serial No. 61,800



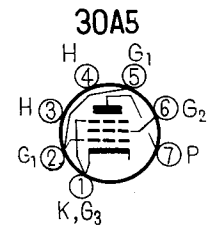
Note:

S101-1-6, S201-1-6 :	Record/Playback Switch (on at record position)	S2 :	Forward/Stop Switch (on at forward position)
S102, S202 :	Equalizer Switch (on at 7½ ips position)	S3-1-2 :	Line/Speaker Switch (on at speaker position)
S1 :	Power ON/OFF Switch		

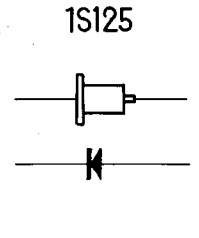
6267



30A5

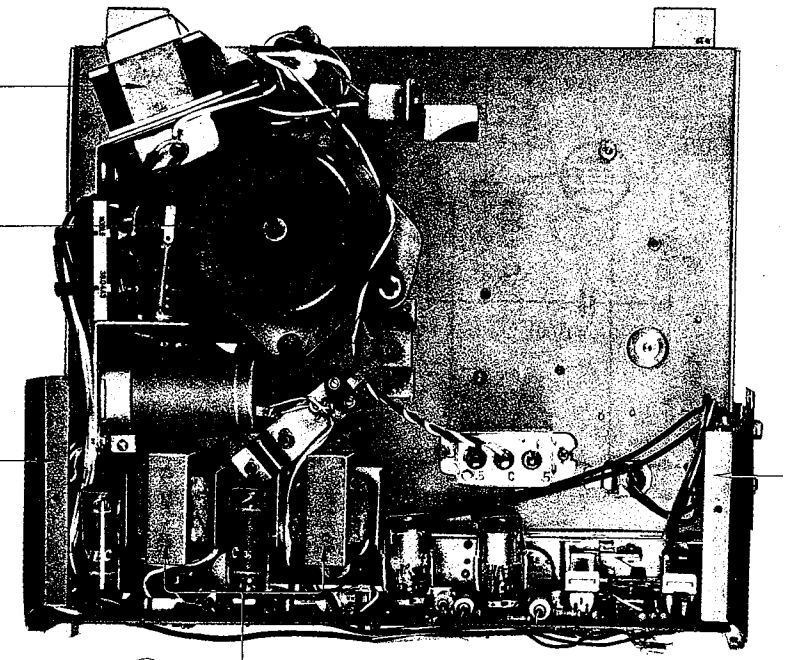


1S125

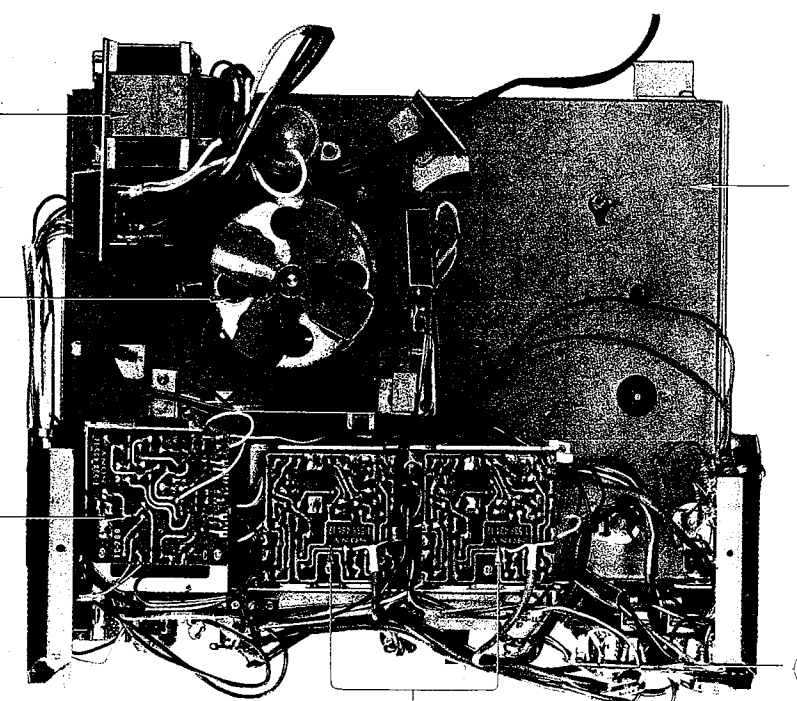


CHASSIS BOTTOM VIEW

Up to Serial No. 141,954

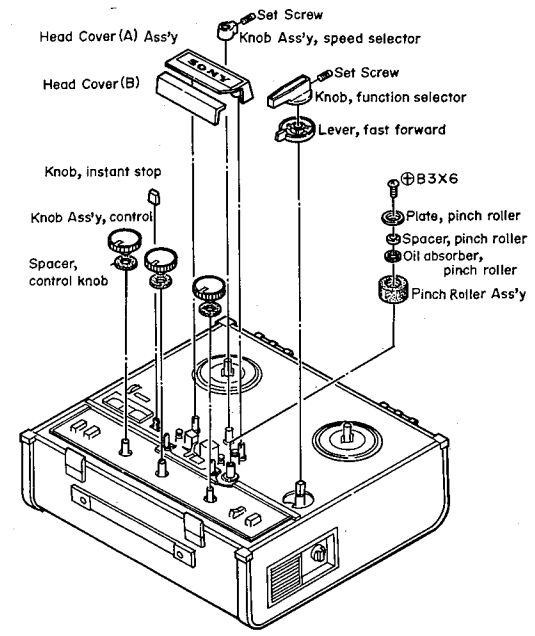


Serial No. 141,955 and later

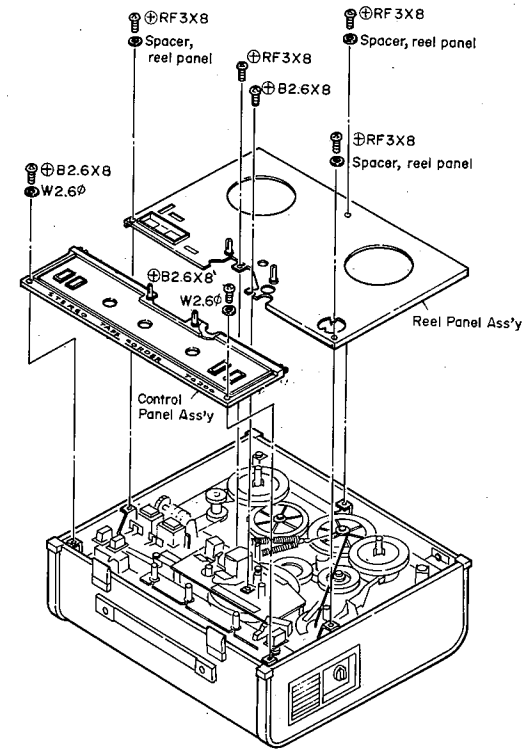

transformer, power (E55)
motor (E16)
printed circuit board, bias osc. (E54)
(A50) base plate ass'y
(E48) printed circuit board, preamp.
(E51) printed circuit board, power amp.

DISASSEMBLY

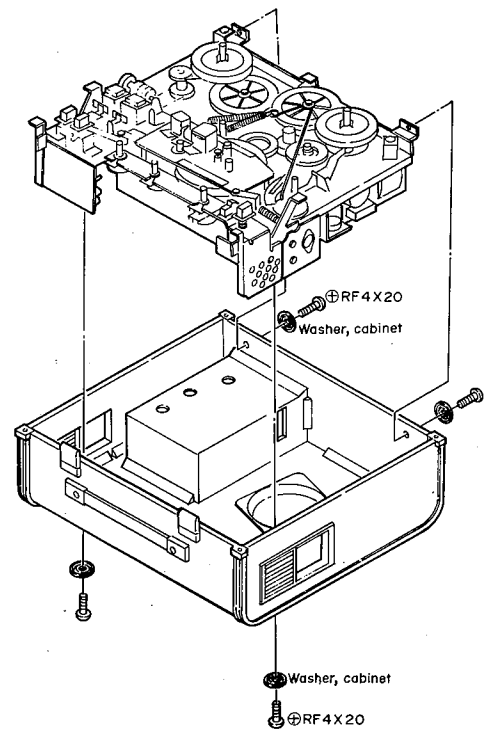
1



2



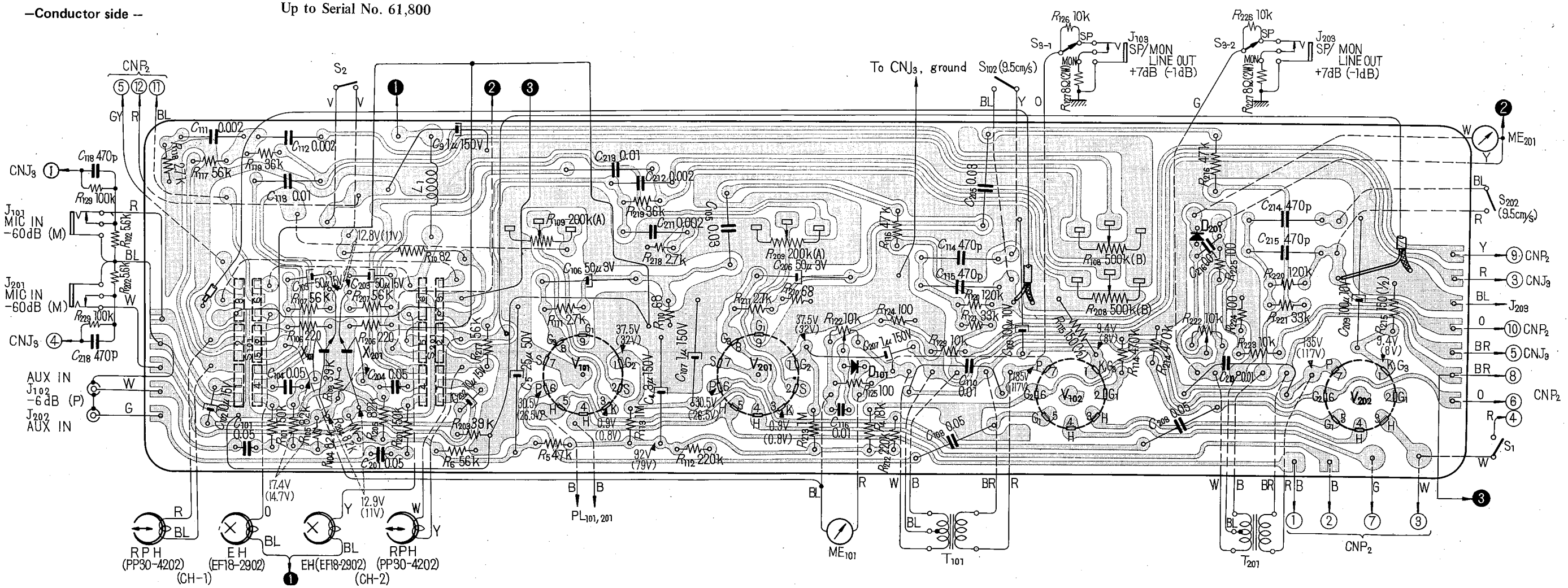
3



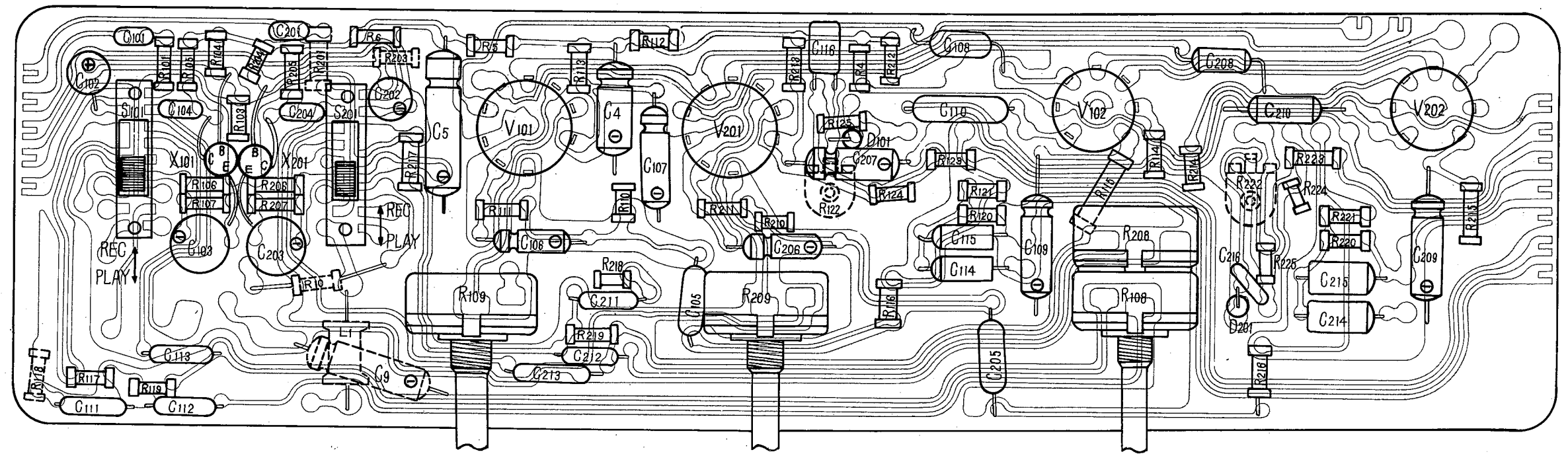
MOUNTING DIAGRAM

–Conductor side –

Up to Serial No. 61,800



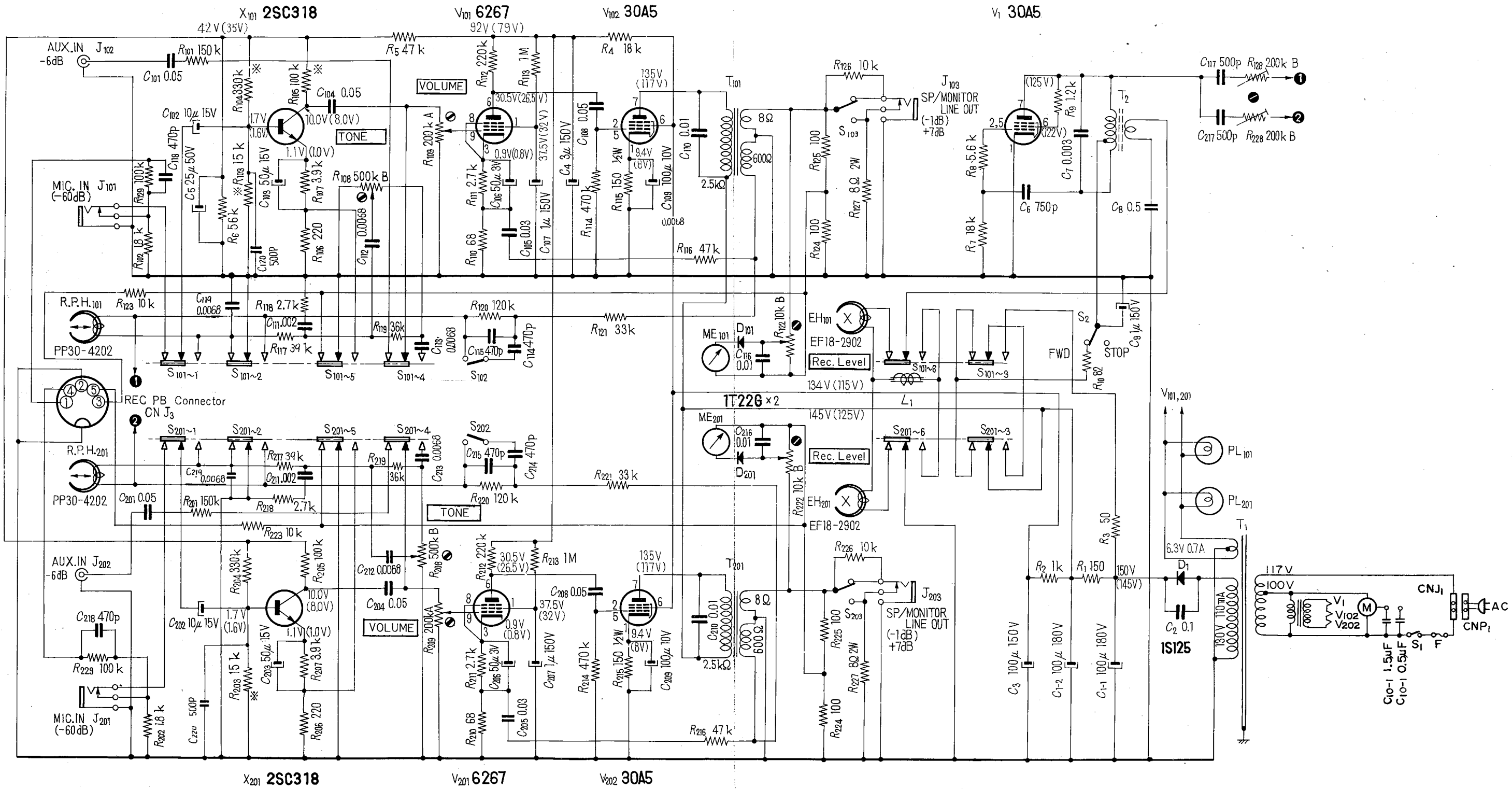
– Component side –



Parts to be mounted on the conductor side:
L1, C9, R10, R201, R203, R122, R222

SCHEMATIC DIAGRAM

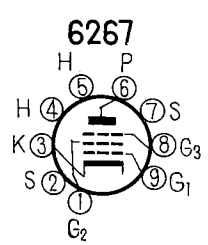
Serial No. from 61,800 to 74,999



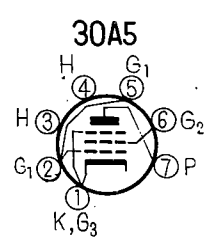
Note:

S101-1-6, S201-1-6 :	Record/Playback Switch (on at record position)	S2 :	Forward/Stop Switch (on at forward position)
S102, S202 :	Equalizer Switch (on at 7½ ips position)	S103, 203 :	Line/Speaker Switch (on at speaker position)
S1 :	Power ON/OFF Switch		

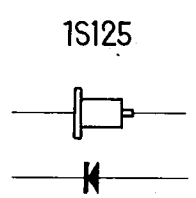
6267



30A5



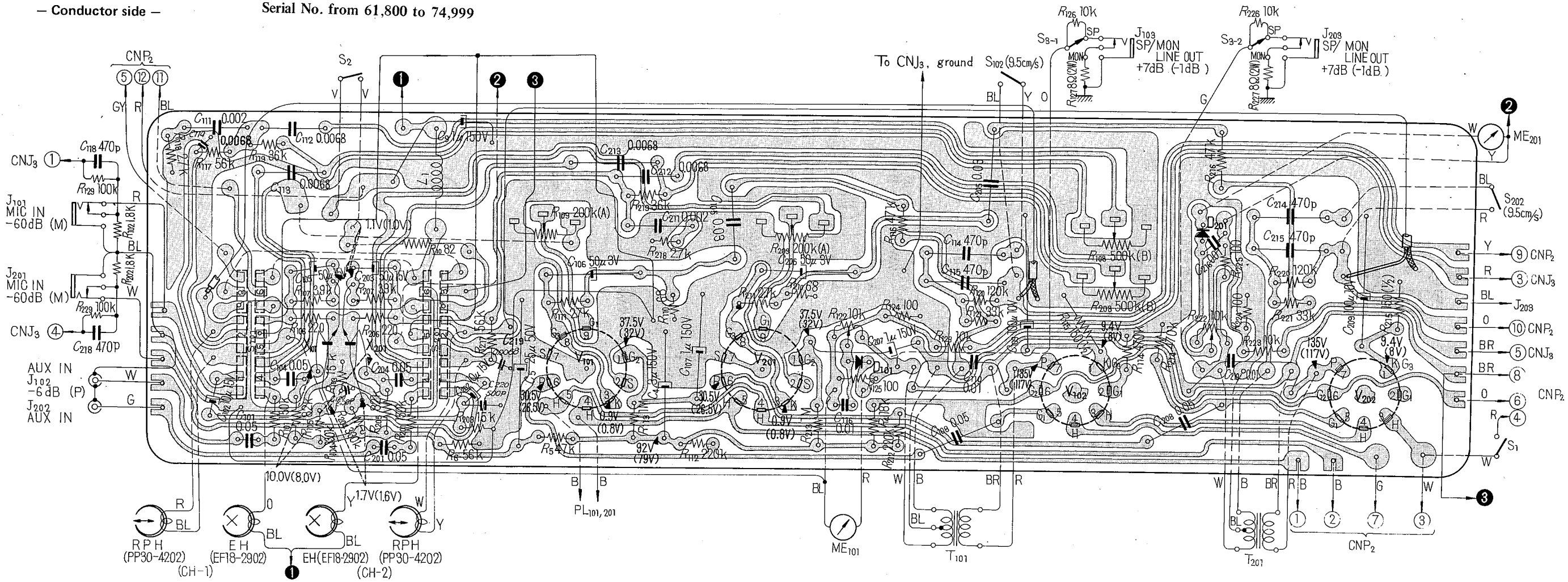
1S125



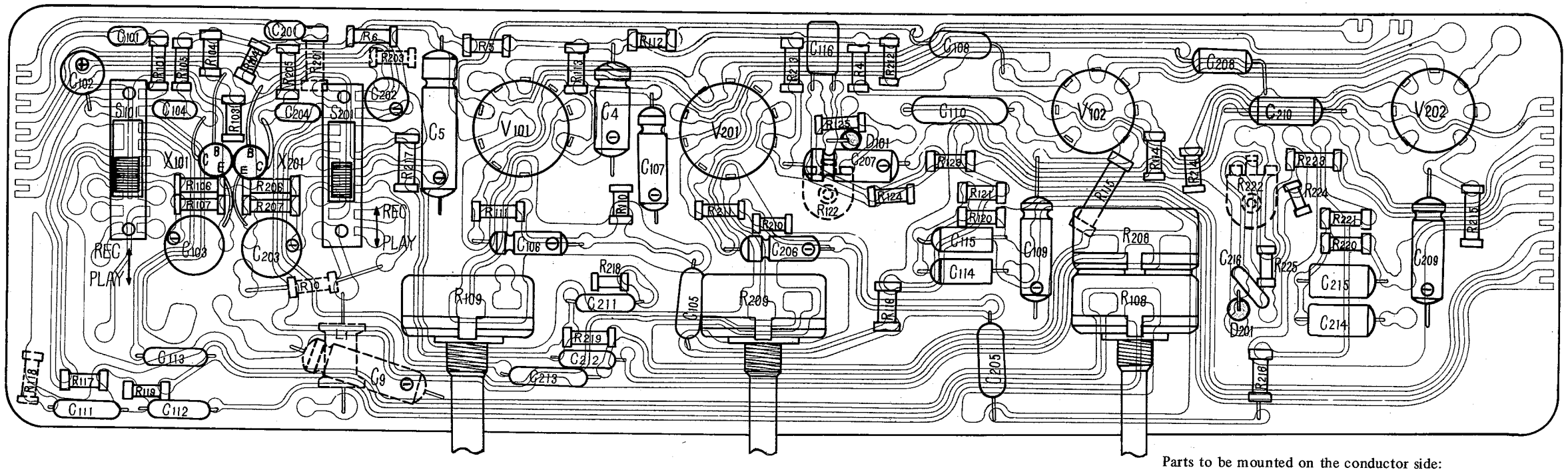
MOUNTING DIAGRAM

— Conductor side —

Serial No. from 61,800 to 74,999



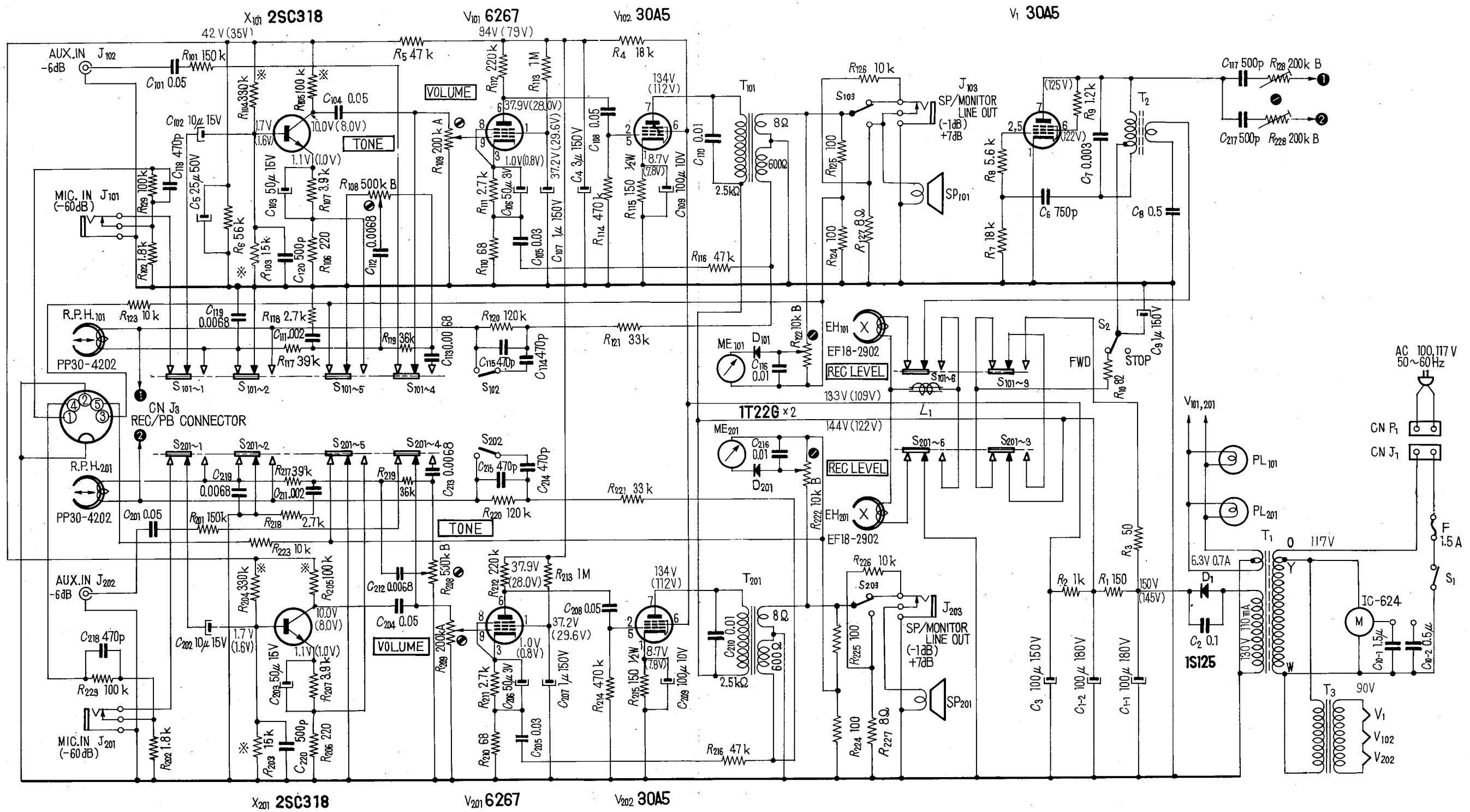
— Component side —



Parts to be mounted on the conductor side:
L1, C9, C119, C219, C120, C220, R10, R201, R203, R122, R222

SCHEMATIC DIAGRAM

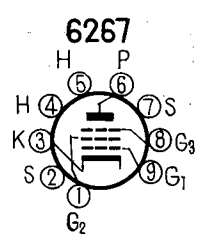
Serial No. from 75,000 to 80,000



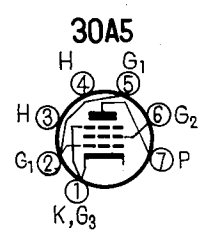
Note:

S101-1-6, S201-1-6 :	Record/Playback Switch (on at record position)	S2 :	Forward/Stop Switch (on at forward position)
S102, S202 :	Equalizer Switch (on at 7½ ips position)	S103, 203 :	Line/Speaker Switch (on at speaker position)
S1 :	Power ON/OFF Switch		

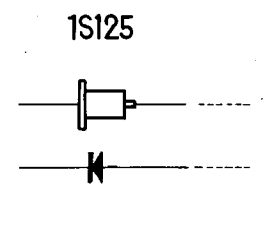
6267



30A5



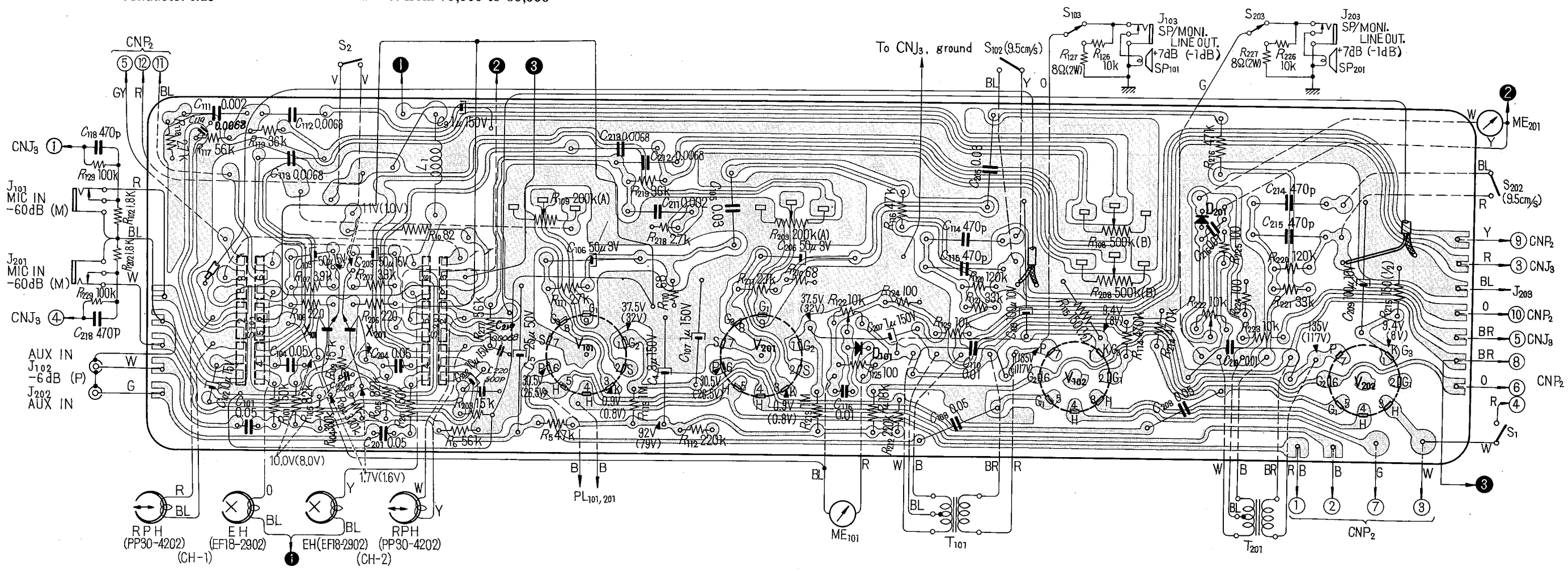
1S125



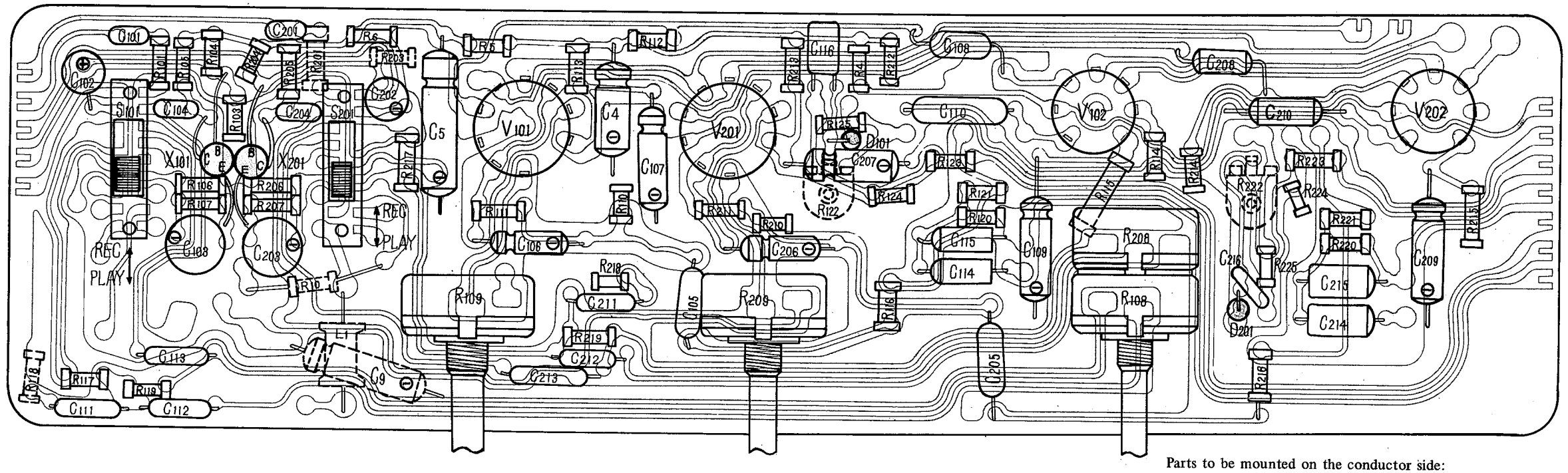
MOUNTING DIAGRAM

— Conductor side —

Serial No. from 75,000 to 80,000



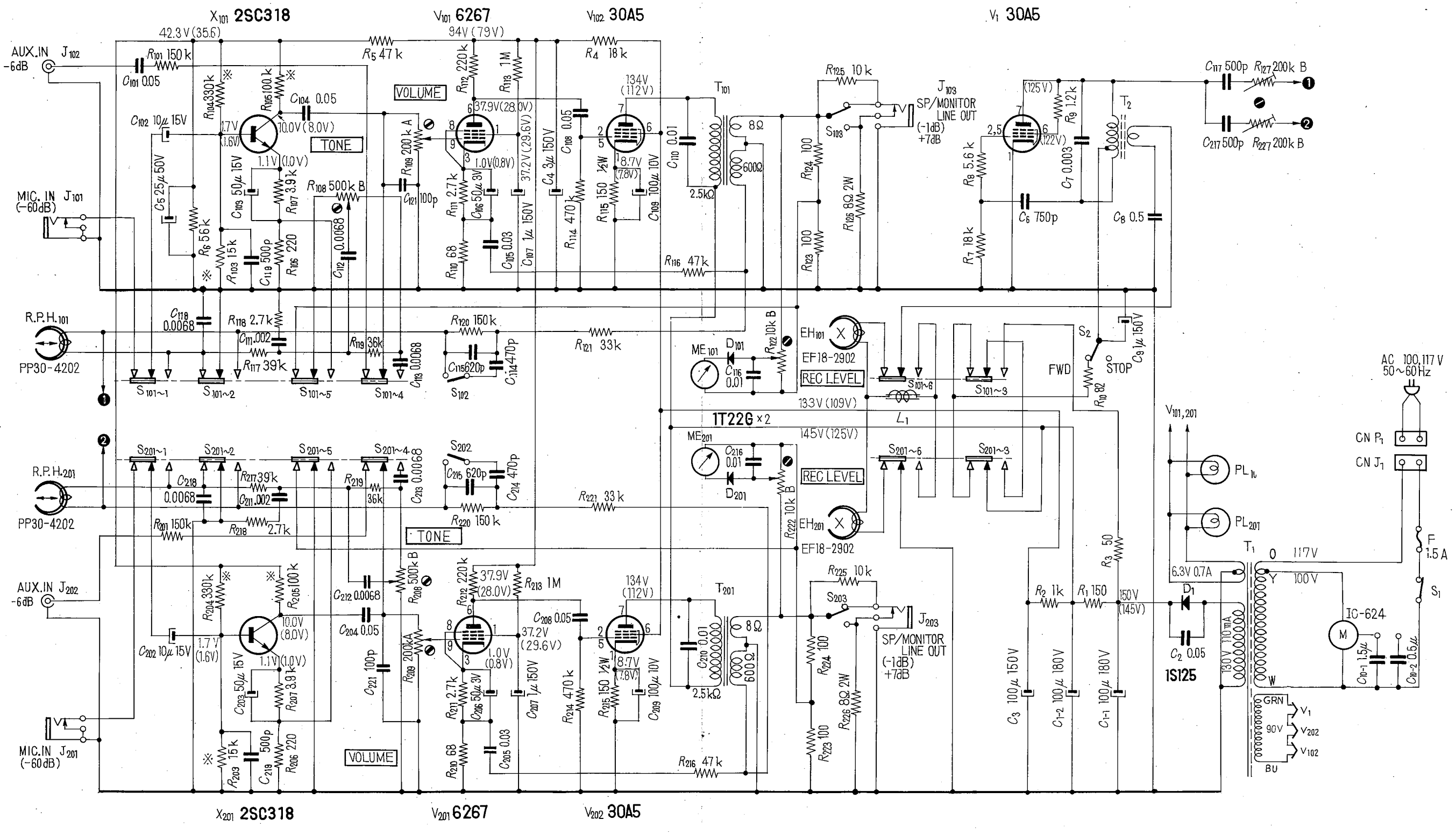
— Component side —



Parts to be mounted on the conductor side:
L1, C9, C119, C219, C120, C220, R10, R201, R203, R122, R222

SCHEMATIC DIAGRAM

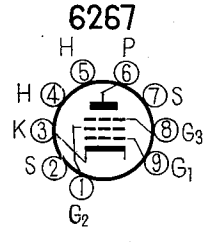
Serial No. from 80,001 to 141,954



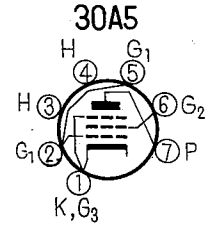
Note:

S101-1-6, S201-1-6 :	Record/Playback Switch (on at record position)	S2 :	Forward/Stop Switch (on at forward position)
S102, S202 :	Equalizer Switch (on at 7½ ips position)	S103, 203 :	Line/Speaker Switch (on at speaker position)
S1 :	Power ON/OFF Switch		

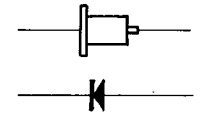
6267



30A5



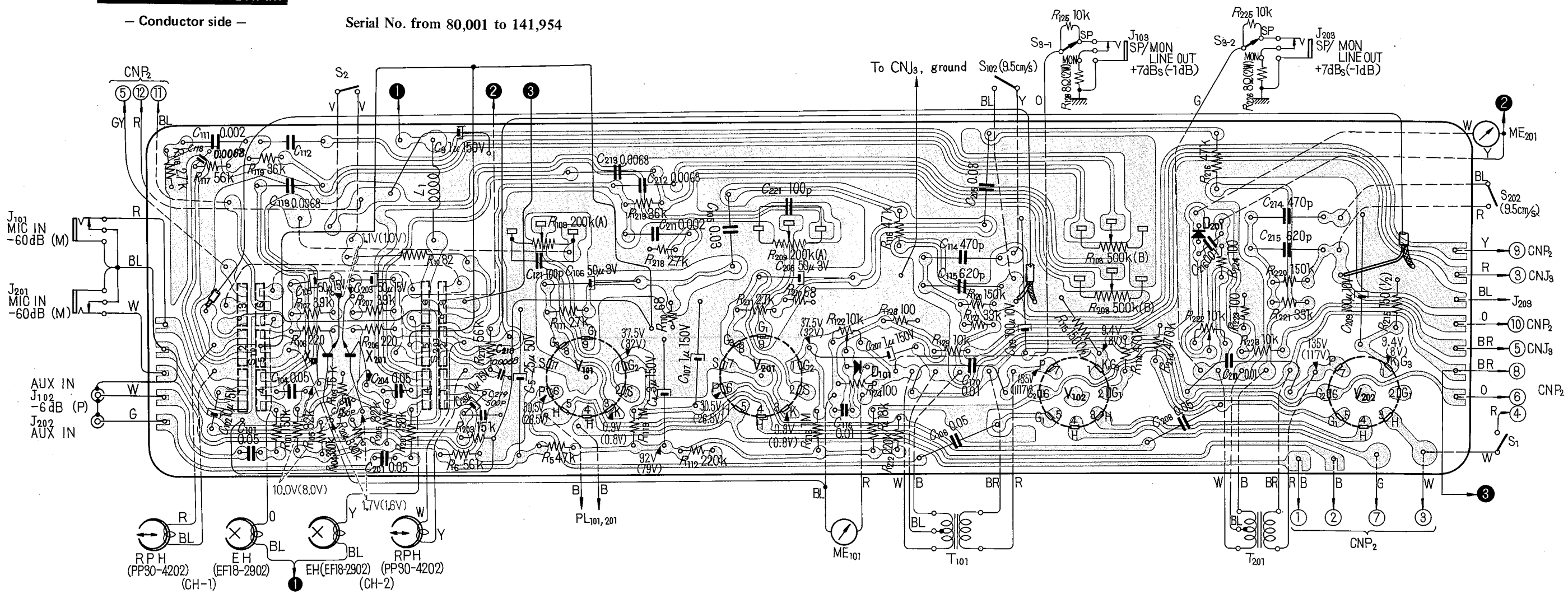
1S125



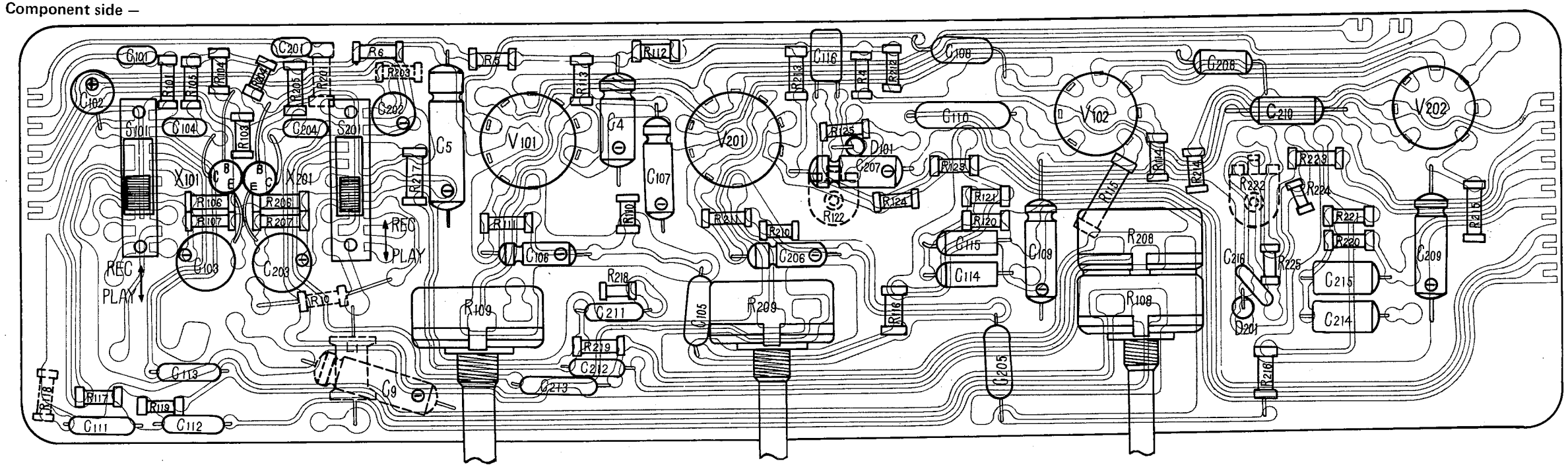
MOUNTING DIAGRAM

— Conductor side —

Serial No. from 80,001 to 141,954



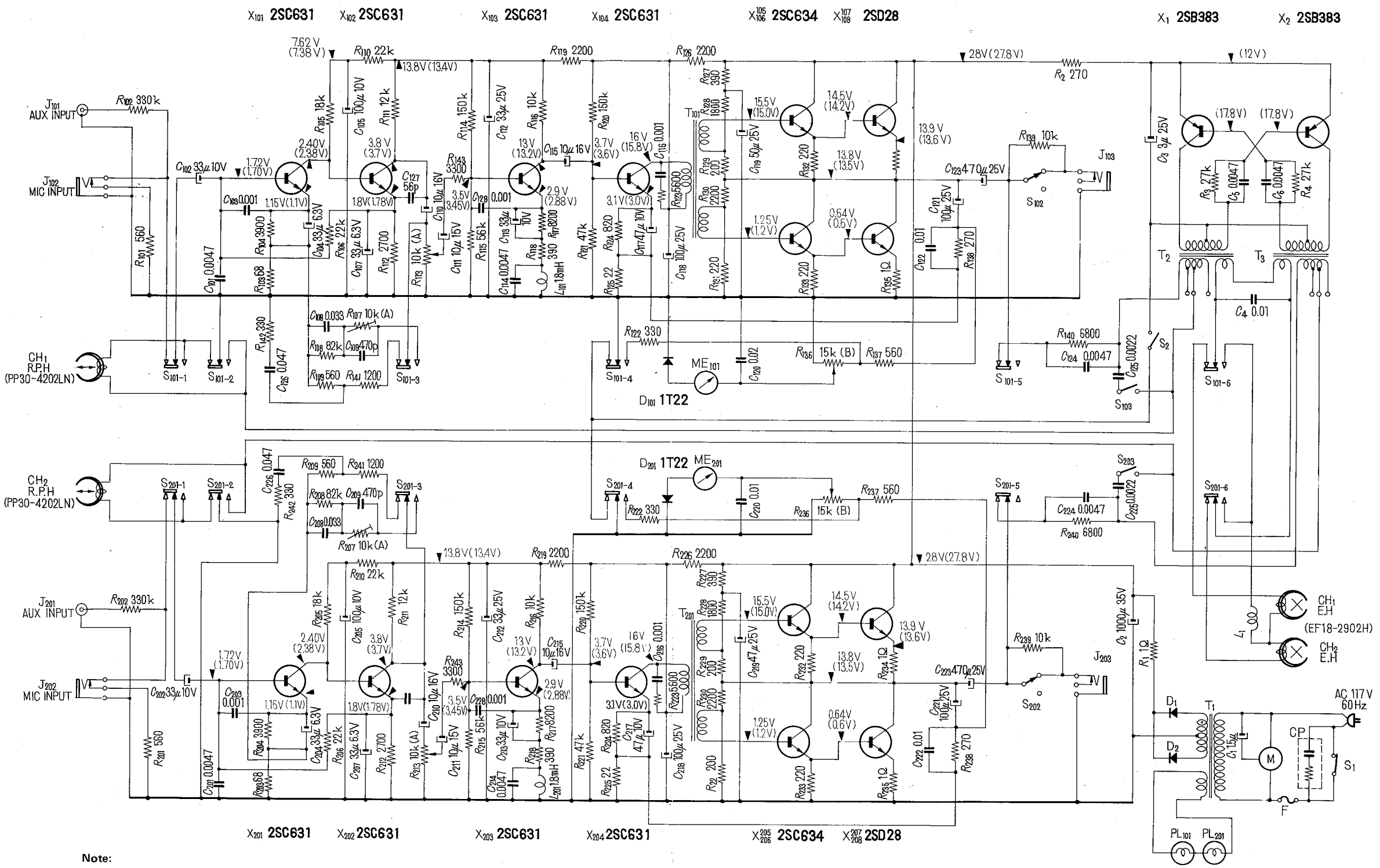
— Component side —



Parts to be mounted on the conductor side:
L1, C9, C119, C219, C120, C220, R10, R201, R203, R122, R222

SCHEMATIC DIAGRAM

Serial No. 141,955 and later



Note:

(1) Switch positions shown in this diagram are as per following table.

Switch No.	Description	Position
S101, 201	Rec./P.B. Switch	Record
S102, 202	SP/MONITOR, LINE OUT Switch	SPEAKER
S103, 203	Equalizer Switch	3¾ ips (9.5 cm/s)
S1	Power Switch	ON
S2	Forward/Stop Switch	Forward

(2) Voltage values shown are measured by using a voltmeter (20 kΩ/volt) in playback mode.
Voltage values enclosed in parentheses are measured in record mode.
Variations may be noted because of normal production tolerances.

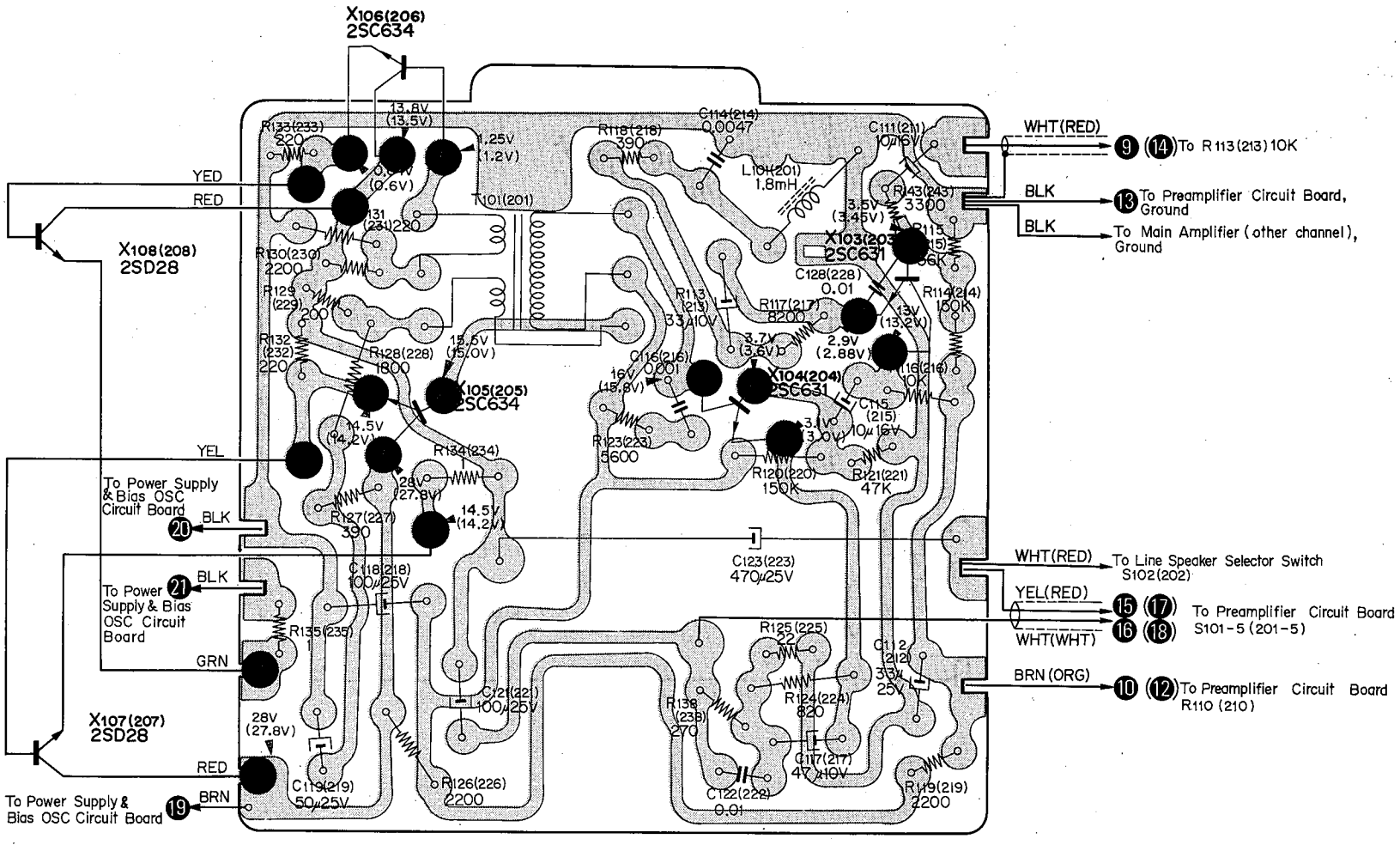
MOUNTING DIAGRAM

Main Amplifier Circuit Board

— Conductor side —

Serial No. 141,955 and later

Printed circuit board
Part No.: 1-538-494-11



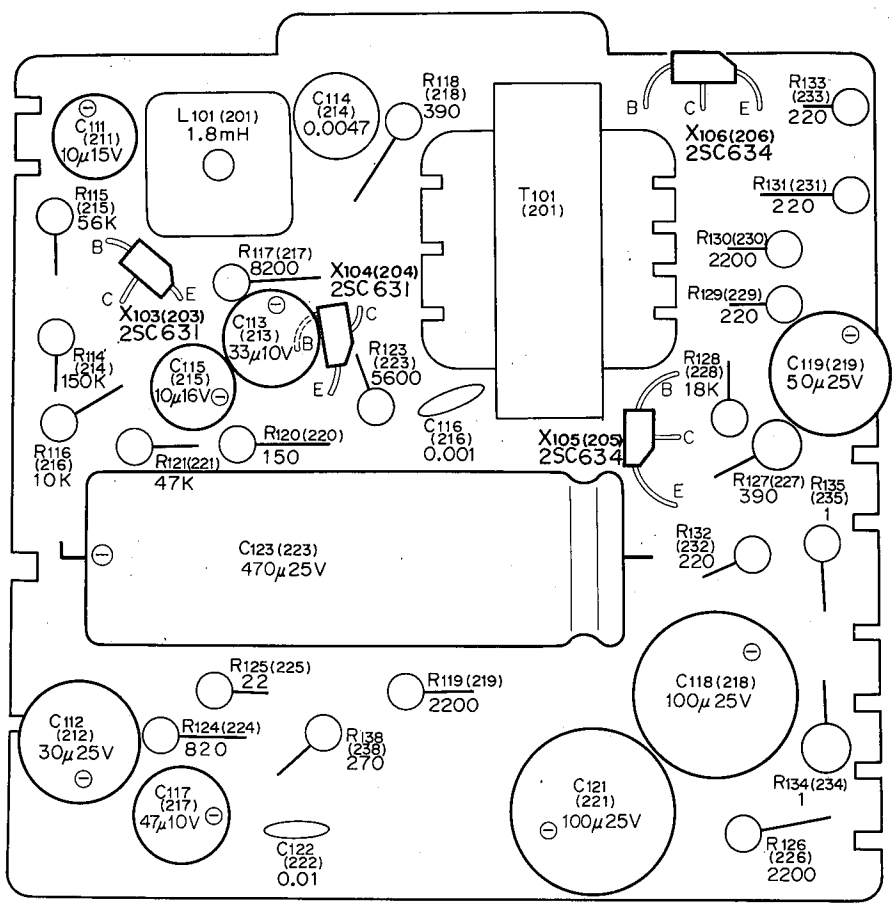
MOUNTING DIAGRAM

Main Amplifier Circuit Board

— Component side —

Serial No. 141,955 and later

Printed circuit board
Part No.: 1-538-494-11

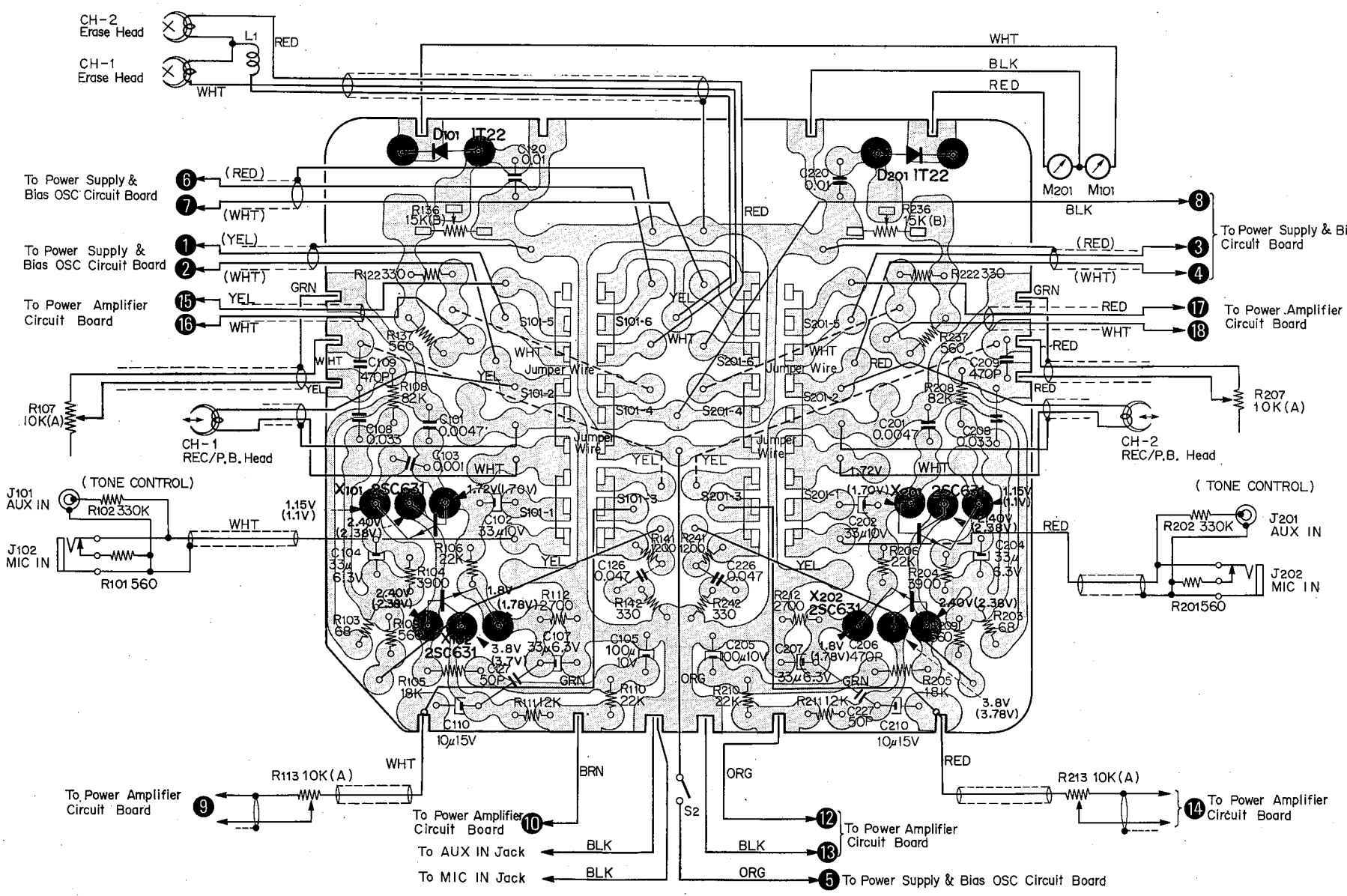


MOUNTING DIAGRAM

Preamplifier Circuit Board

— Conductor side —

Serial No. 141,955 and later

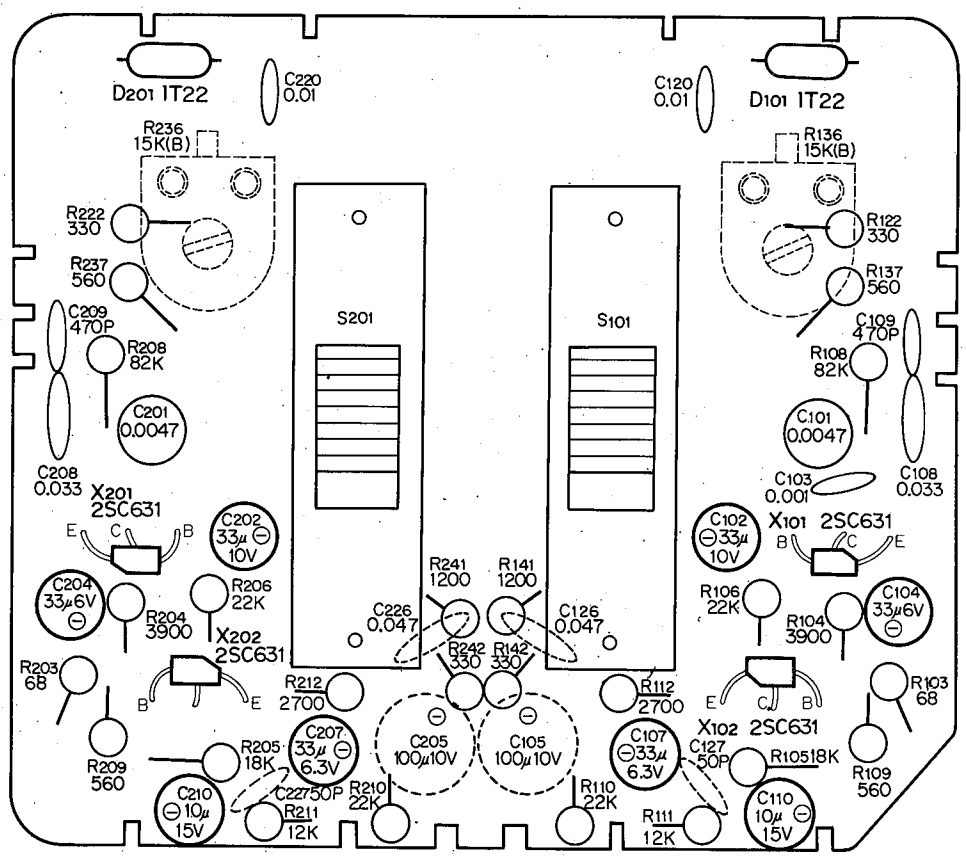


MOUNTING DIAGRAM

Preamplifier Circuit Board

— Component side —

Serial No. 141,955 and later

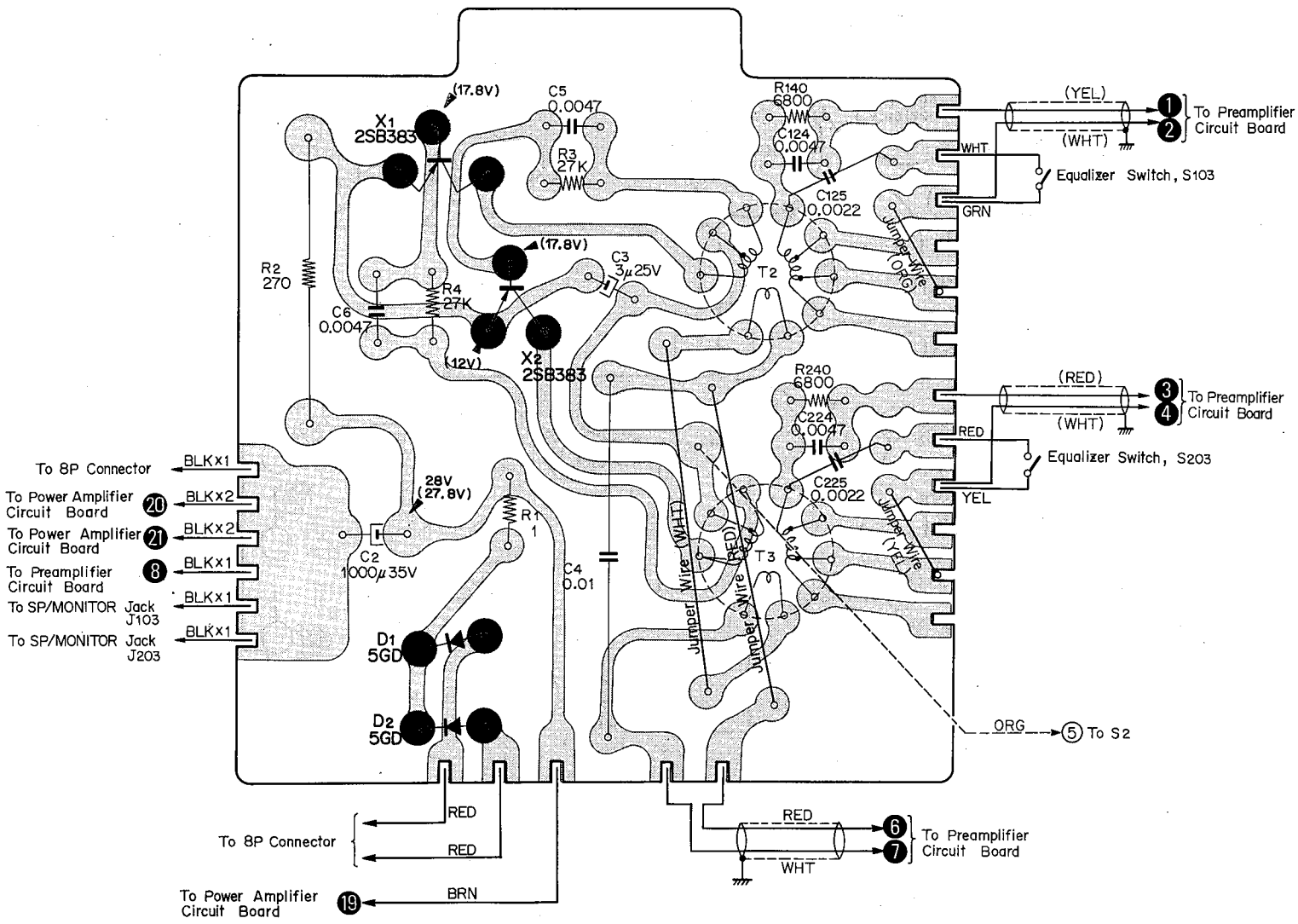


MOUNTING DIAGRAM

Power Supply & Bias OSC Circuit Board

— Conductor side —

Serial No. 141,955 and later

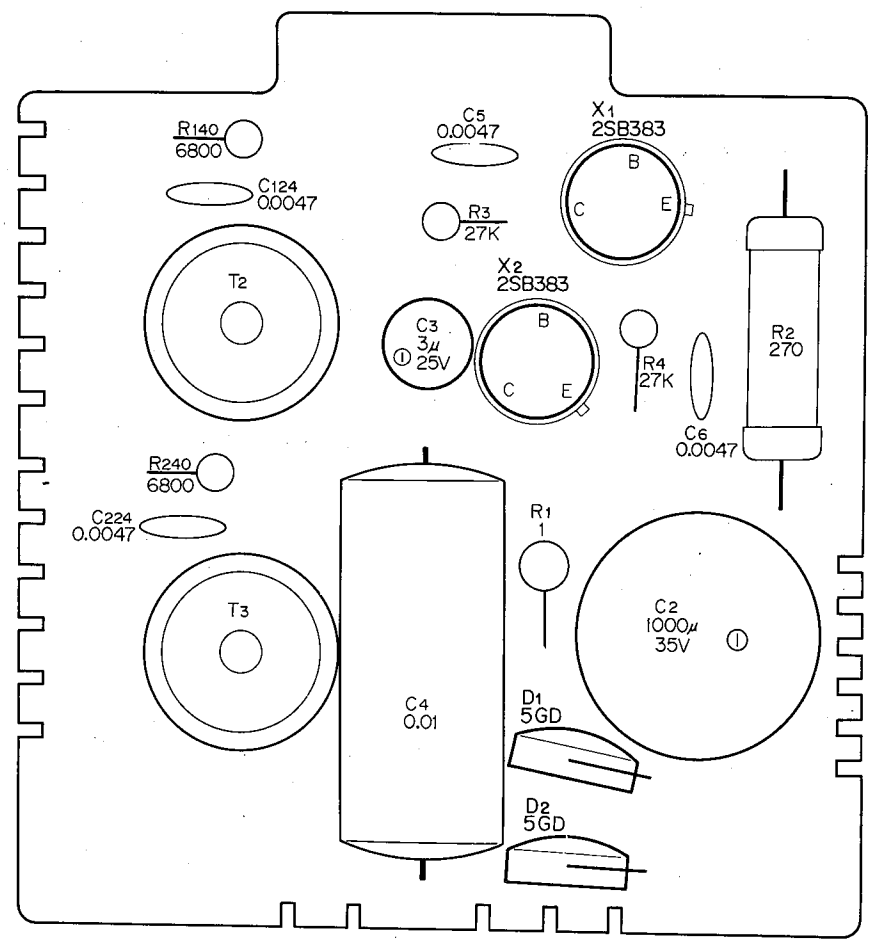


MOUNTING DIAGRAM

Power Supply & Bias OSC Circuit Board

— Component side —

Serial No. 141,955 and later

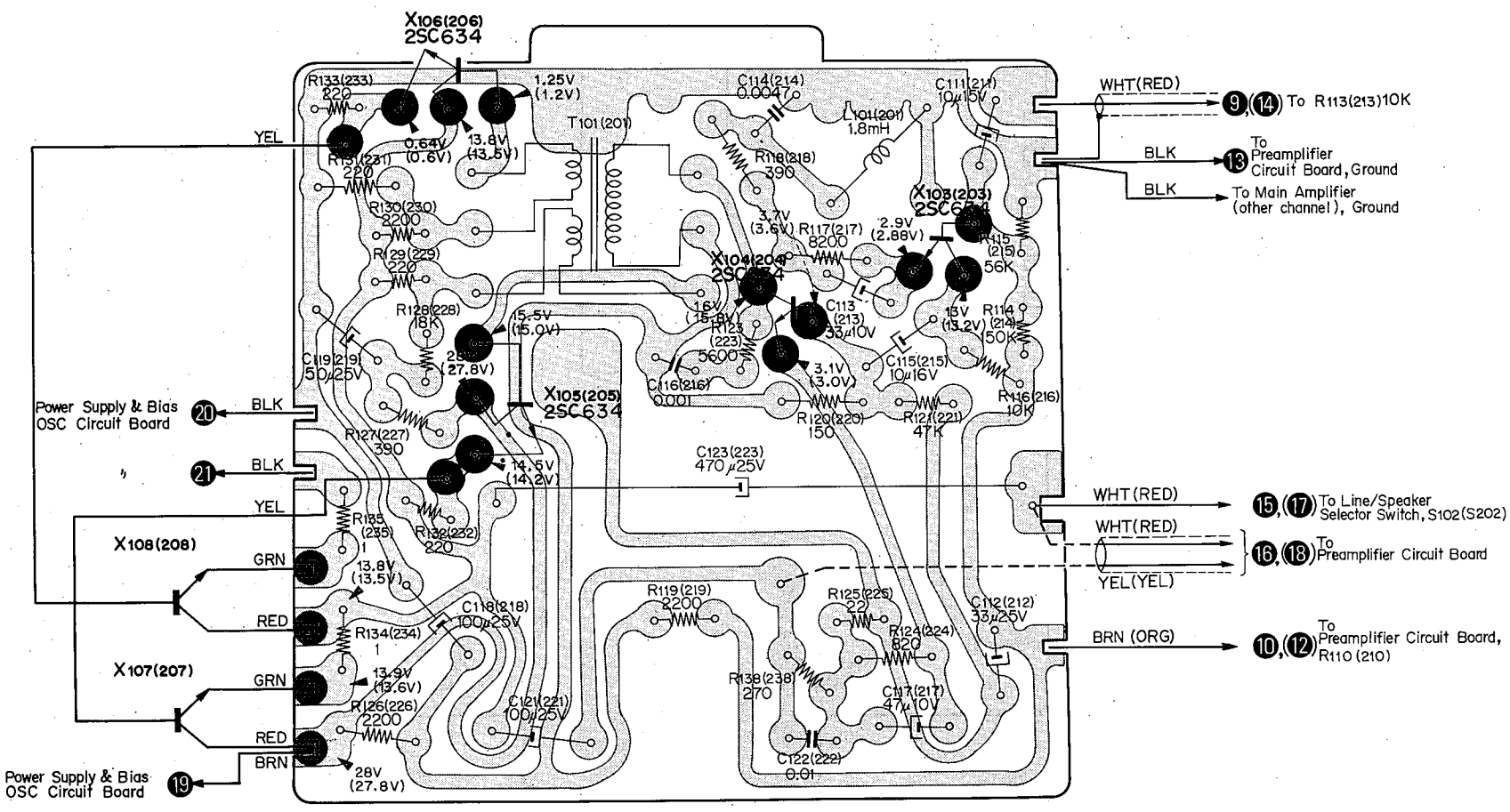


MOUNTING DIAGRAM

Serial No. 141,955 and later

Printed circuit hoard
Part No.: 1-538-494-12

Main Amplifier Circuit Board
– Conductor side –

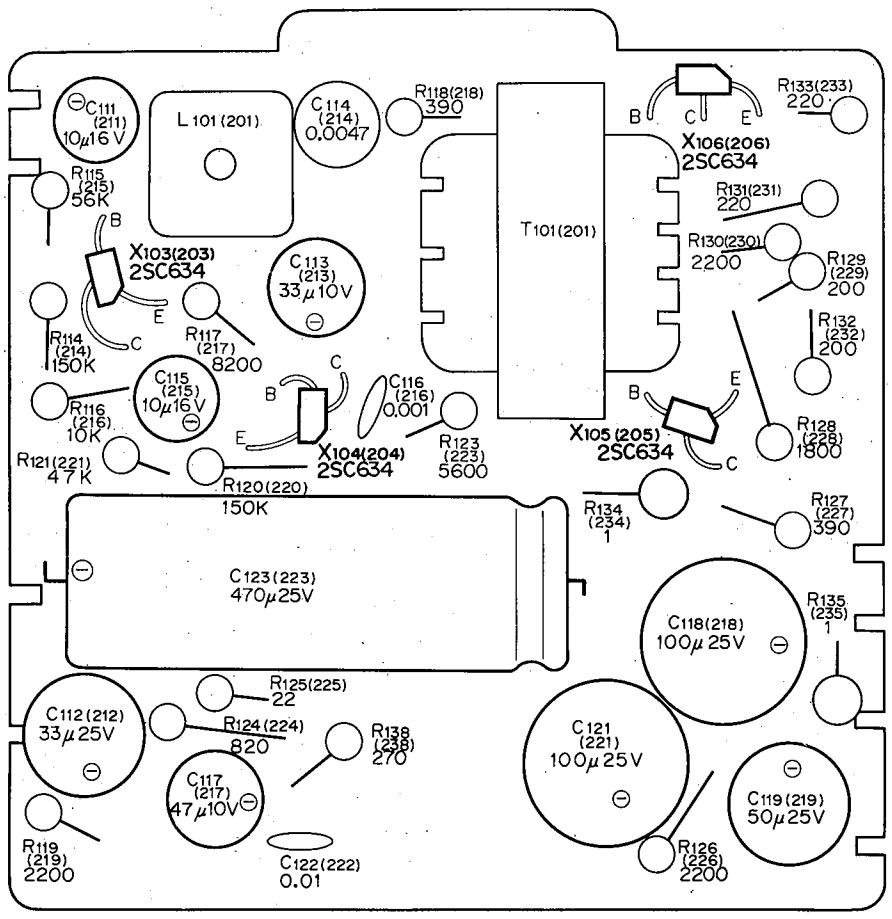


MOUNTING DIAGRAM

Serial No. 141,955 and later

Printed circuit board
Part No.: 1-538-494-12

Main Amplifier Circuit Board
– Component side –



ELECTRICAL ADJUSTMENT

Up to Serial No. 141,954

Item	Signal Source	Output Connection	Mode	Adjust	Remarks
1. Head Azimuth Alignment	2nd tone (15 kHz) of AMPEX alignment tape 01-31321-04, or equivalent	VTVM and 8Ω resistor in parallel with LINE/SP Jacks (J_{103}/J_{203})	Playback	Azimuth Alignment Screw (See Fig. 1)	1. Set the LINE/SP Selector Switch to "SPEAKER". 2. Set the tone control knobs fully clockwise position. 3. Playback the alignment tape. 4. Adjust the azimuth alignment screw to obtain the maximum reading on the VTVM.
2. Recording Bias Adjust-ment	no signal input	VTVM across winding of the REC/PB Head (L-CH, R-CH)	Record	R_{128} (L-CH) R_{228} (R-CH) (See Fig. 2)	1. Set L-CH (R-CH) Volume Control Knob to maximum position. 2. Set R-CH (L-CH) Volume Control Knob to minimum position. 3. Adjust R_{128} (R_{228}) so that the VTVM indicates approx. 25~36V.
3. Meter Level Adjust-ment	1 kHz of -60 dB (0.775mV) into the MIC Jacks (J_{101}/J_{201})	VTVM and a 100kΩ resistor in parallel with the LINE/SP Jacks (J_{103}/J_{203})	Record	R_{122} (L-CH) R_{222} (R-CH) (See Fig. 3)	1. Set the LINE/SP Selector Switch to "LINE". 2. Turn the Volume Control R_{109} (R_{209}) so that the VTVM reads +2 dB (0.98V). 3. Adjust R_{122} (R_{222}) so that the pointer of the Level Meter is just at the boundary between the red portion and the black portion, while keeping the Volume Control as it is.

Notes:

(1) Before making adjustments, clean the rec./p.b. head & the erase head with the cloth or swab dampened with denatured alcohol.

(2) The adjustments should be performed at the speed of 7½ ips (19cm/s), unless otherwise specified.

(3) After adjustments, apply the lock paint to the adjusted parts.

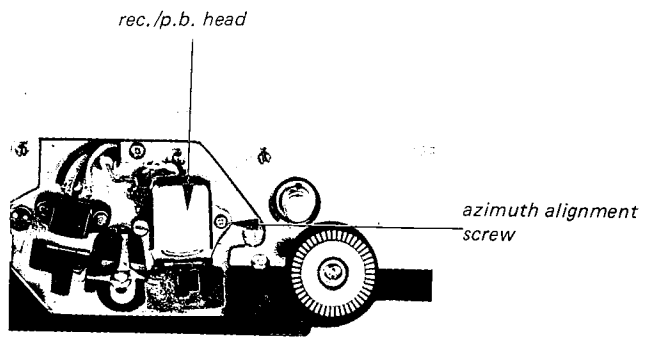


Fig. 1 Adjusting position

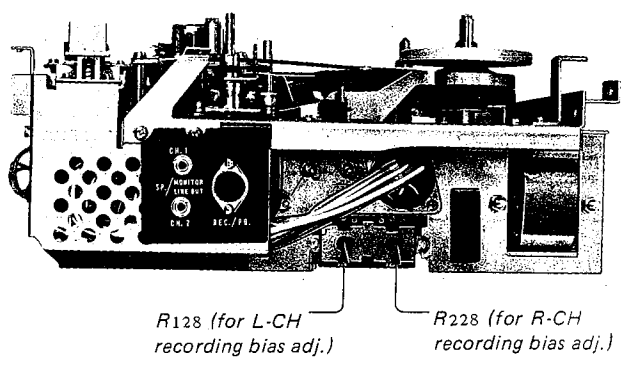


Fig. 2 Adjusting positions

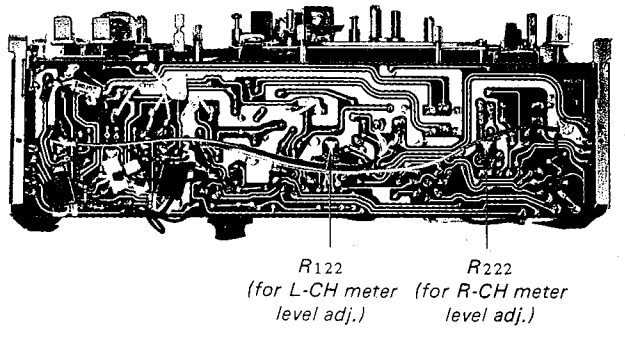


Fig. 3 Adjusting positions

ELECTRICAL ADJUSTMENT

Serial No. 141,955 and later

Item	Signal Source	Output Connection	Mode	Adjust	Remarks
1. Head Azimuth Alignment	2nd tone (15 kHz) of AMPEX alignment tape 01-31321-04, or equivalent	VTVM and 8Ω resistor in parallel with LINE/SP Jacks (J_{103}/J_{203})	Playback	Azimuth Alignment Screw (See Fig. 1)	1. Set the LINE/SP Selector Switch to "SPEAKER". 2. Set the tone control knobs fully clockwise position. 3. Playback the alignment tape. 4. Adjust the azimuth alignment screw to obtain the maximum reading on the VTVM.
2. Trap Coil Adjust-ment	no signal input	VTVM and 100kΩ resistor in parallel with LINE/SP Jacks (J_{103}/J_{203})	Playback & Record	L_{101} (L-CH) L_{201} (R-CH) (See Fig. 4)	1. Place the L-CH (R-CH) in playback mode. 2. Place the R-CH (L-CH) in record mode. 3. Adjust L_{101} (L_{201}) to obtain the minimum reading on the VTVM.
3. Meter Level Adjust-ment	1 kHz of -60 dB (0.775mV) into the MIC Jacks (J_{101}/J_{201})	VTVM and 100 kΩ resistor in parallel with LINE/SP Jacks (J_{103}/J_{203})	Record	R_{136} (L-CH) R_{236} (R-CH) (See Fig. 5)	1. Set the LINE/SP Selector Switch to "LINE". 2. Adjust Volume Control R_{113} (R_{213}) so that reading on VTVM shows +1.0 dB (0.87V). 3. Adjust R_{136} (R_{236}) so that pointer of Level Meter indicates the boundary between red portion and black portion, while keeping the Volume Control as it is.
4. Recording Bias Adjust-ment	no signal input	VTVM across winding of the REC/PB Head (L-CH, R-CH)	Record	Change tap of OSC Trans-formers (T_2, T_3) (Refer to mounting diagram on page 33.)	1. Set L-CH (R-CH) Volume Control Knob to maximum position. 2. Set R-CH (L-CH) Volume Control Knob to minimum position. 3. Change the tap of osc. transformer with a jumper wire so that the VTVM indicates 12 ~ 16 V.

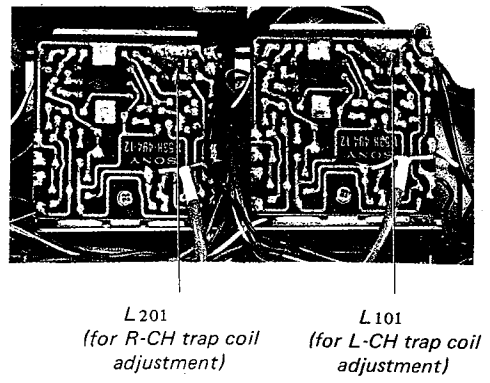


Fig. 4 Adjusting positions

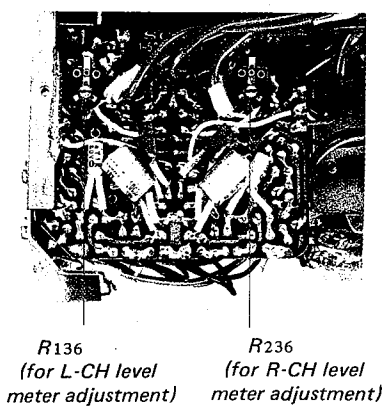


Fig. 5 Adjusting positions

LUBRICATION

Attention must be payed on the following points in oiling procedures.

(1) Over lubrication must be avoided.

In general, the mechanism in the tape recorder employs many rubber wheels which serve to transmit revolutions through friction.
The frictional force will be greatly reduced by even one drop of oil stained on the rubber surface and it may cause slippage in the mechanism. Moreover, the rubber will be permanently spoiled if it is stained with larger quantity of oil.
To prevent this trouble excessive oiling which may cause the overflow should be avoided. If the rubber surface is stained or covered with the oil, wipe off with a piece of clean cloth dampened with a few drops of alcohol. Never use benzine.

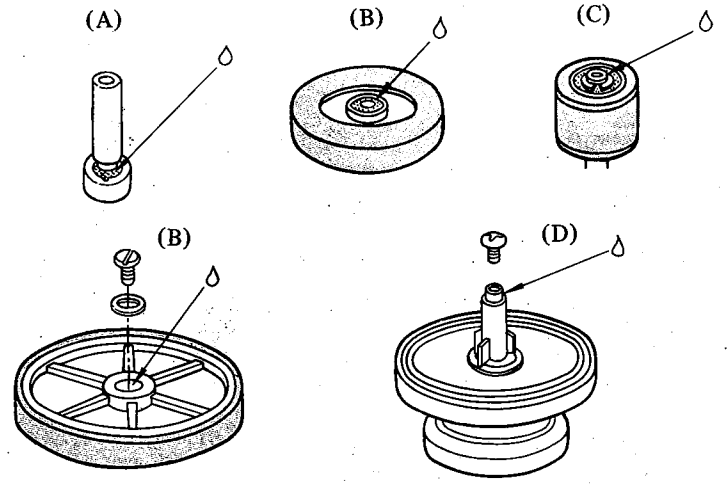
(2) Low quality oil causes coagulation of dust which will causes bearing trouble.

Viscosity of the lubricating oil is also very important. The oil forms thin layer between the shaft and the bearing metal while the former is in motion. This oil layer prevents the shaft from touching the bearing metal directly, and therefore the shaft rotates smoothly.
In general, the lower the rotating speed, the thicker the oil should be.
In other words, for higher speed, thinner oil is adequate. Regarding the actual mechanism, the motor shaft rotates in the highest speed among whole mechanism but it generates lower torque.
If the motor bearing is lubricated with heavy oil, considerable amount of the generated torque is consumed to overcome the resistance due to the viscosity of the oil. Accordingly, heavy oil does not only reduce the effective torque but also the motor will have difficulty to start especially under low temperature.
Therefore, appropriate oil must be chosen in accordance with the rotating speed and torque.

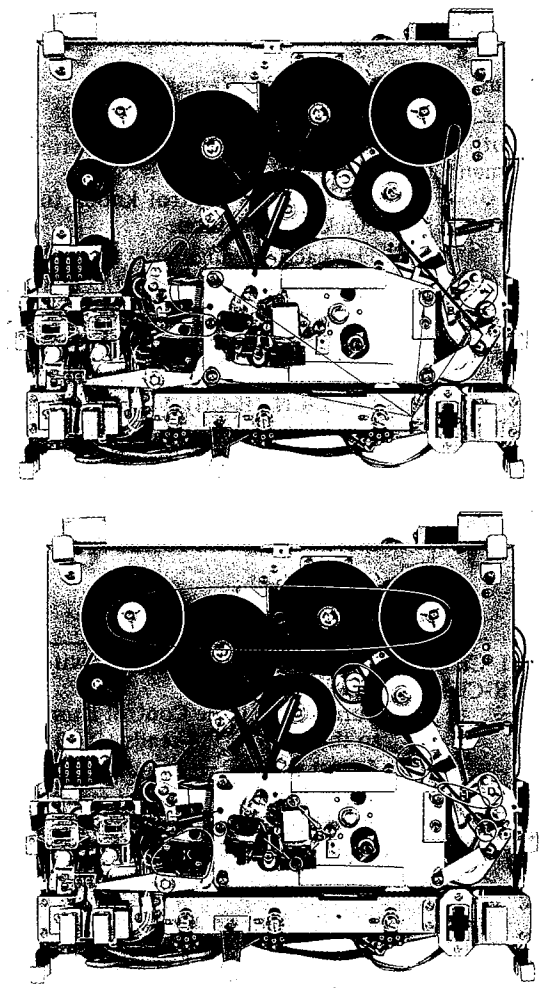
(3) Recommended quantity and quality of the oil

Oiling Point	Designation in the Fig.	Quantity	Quality
Drive Shaft	(A)	Two drops/500 hr running	SONY Oil "OL-1K", Light Machine Oil or equivalent
Idler Shaft	(B)	,,	
Pinch Roller	(C)	,,	
Reel Spindle	(D)	,,	
Motor Bearing		0.5 cc/1000 hr running	Light Machine Oil

An injection syringe with a heavy needle is recommended for oiling.
Oiling procedure for each point is shown in the following illustrations.

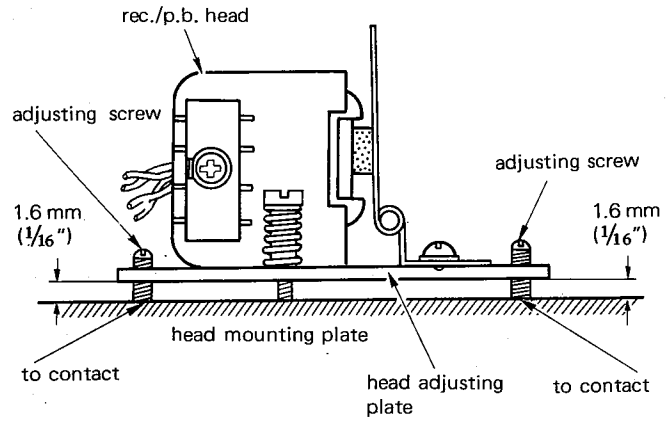


MECHANICAL ADJUSTMENT



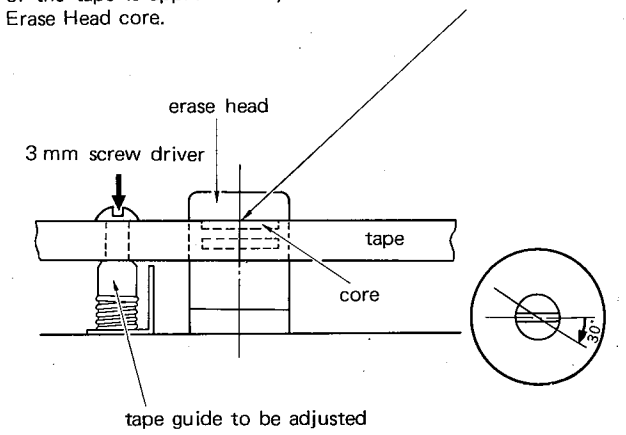
— Adjusting positions —

B REC/P.B. Head Mounting Plate Height Adjustment

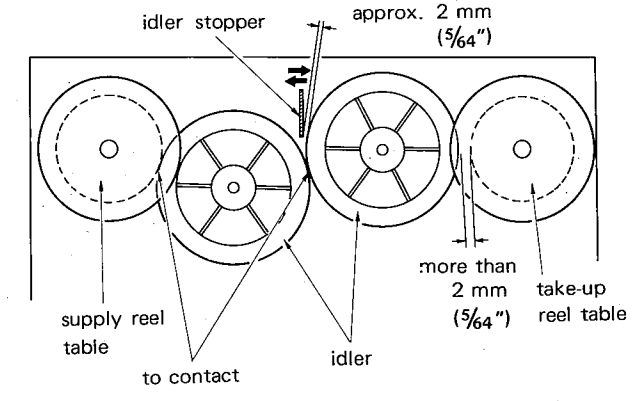


A Tape Pass Adjustment

Align the upper edges of the Head Cores and upper edge of the tape by turning the Tape Guide located on the left side of the Erase Head and turn the Tape Guide clockwise by approximately 30° from the position obtained so that the upper edge of the tape is approximately 0.05 mm lower than that of the Erase Head core.

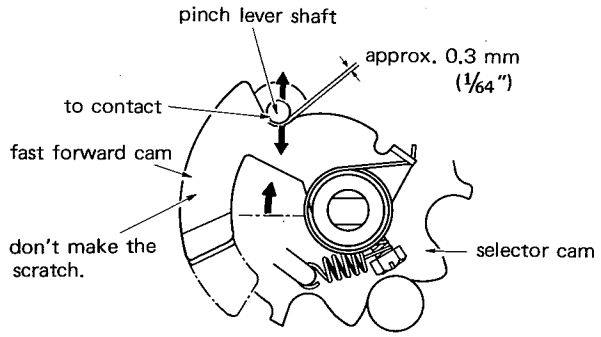


C Idler Stopper Adjustment in stop mode



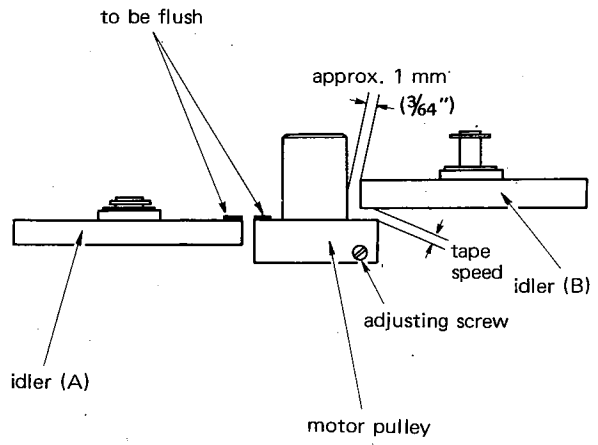
D Pinch Lever Shaft Adjustment

in stop mode



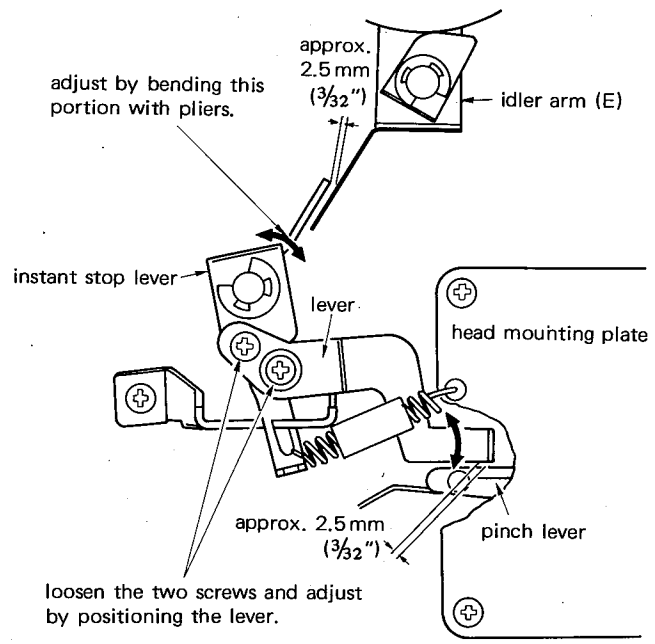
E Idler (A) and (B) Height Adjustment

in stop mode at 7½ ips (19 cm/s)



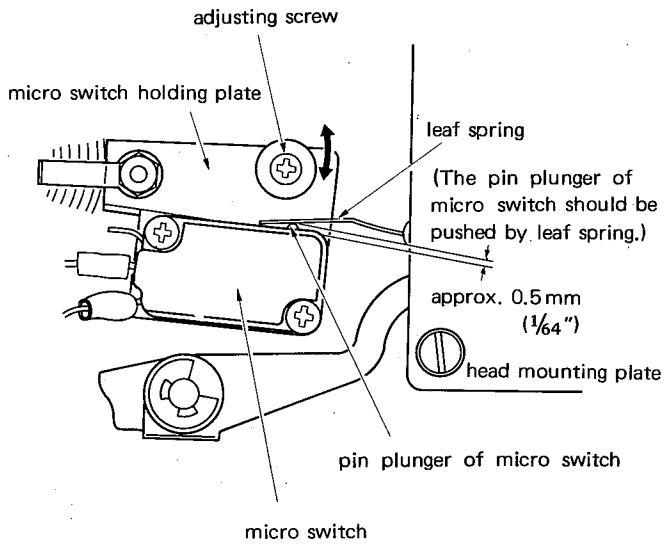
J Instant Stop Lever Adjustment

in forward mode


approx. 2.5 mm (3/32")
adjust by bending this portion with pliers.
idler arm (E)
instant stop lever
lever
head mounting plate
approx. 2.5 mm (3/32")
pinch lever
loosen the two screws and adjust by positioning the lever.

K Micro Switch Position Adjustment

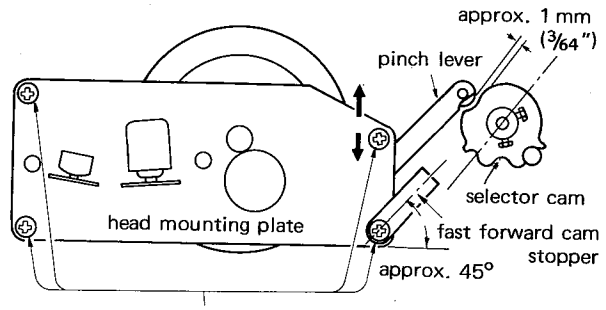
in fast forward mode


adjusting screw
micro switch holding plate
leaf spring
(The pin plunger of micro switch should be pushed by leaf spring.)
approx. 0.5 mm (1/64")
head mounting plate
pin plunger of micro switch
micro switch

loosen the screw and adjust by positioning the micro switch holding plate.

F Head Mounting Plate Position Adjustment

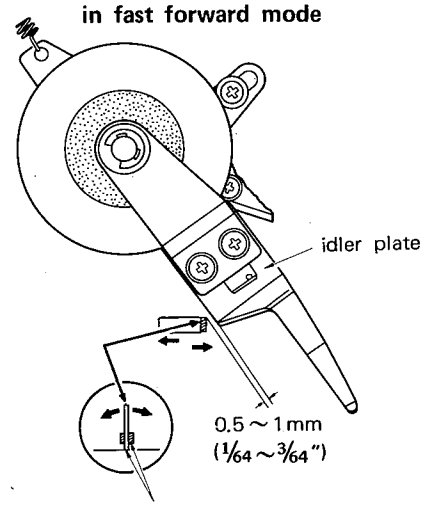
in forward mode



loosen the four screws and adjust by positioning the head mounting plate.

G Idler Stopper Adjustment

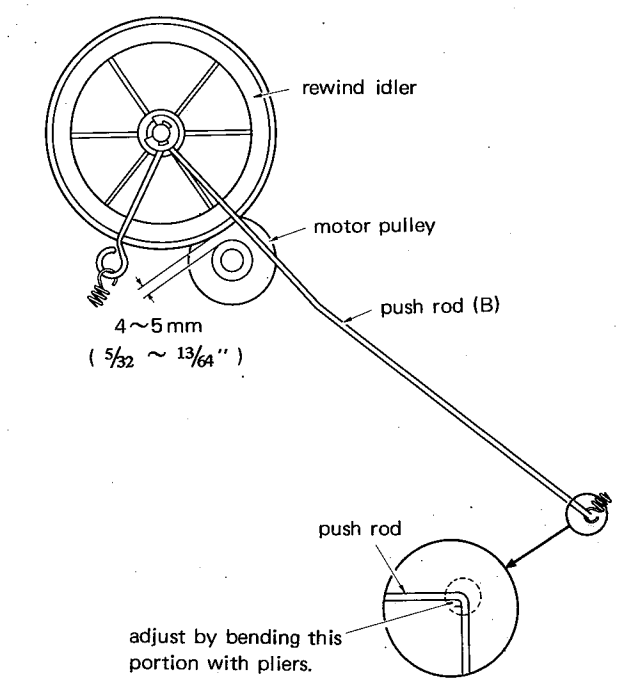
in fast forward mode



adjust by bending this portion with pliers.

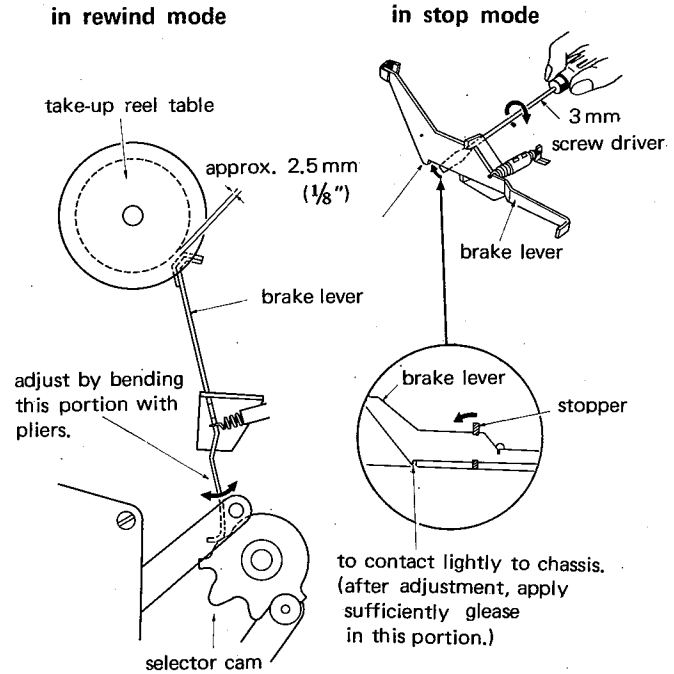
L Clearance Adjustment between Rewind Idler & Motor Pulley

in stop mode



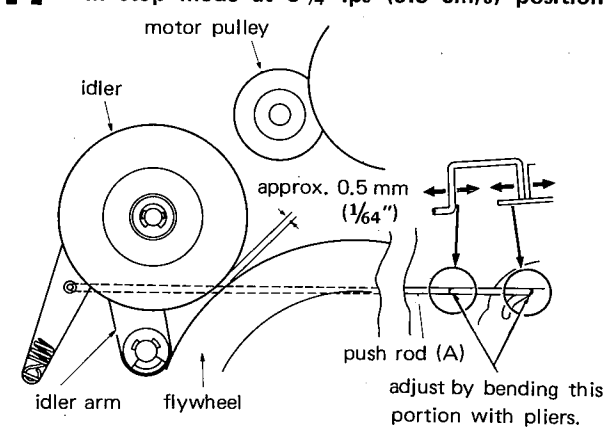
M Take-up Brake Adjustment

in rewind mode **in stop mode**


take-up reel table
approx. 2.5 mm (1/8")
3 mm screw driver
brake lever
brake lever
adjust by bending this portion with pliers.
brake lever
stopper
to contact lightly to chassis. (after adjustment, apply sufficiently glease in this portion.)
selector cam

H Push Rod (A) Adjustment

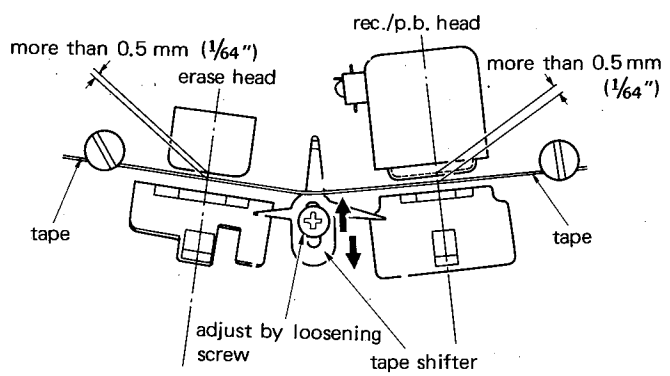
in stop mode at 3¾ ips (9.5 cm/s) position



after adjustment, be sure that idler and flywheel do not contact each other at 3¾ ips position in stop mode, and idler and motor pulley contact completely at 3¾ ips position in forward mode.

I Tape Shifter Adjustment

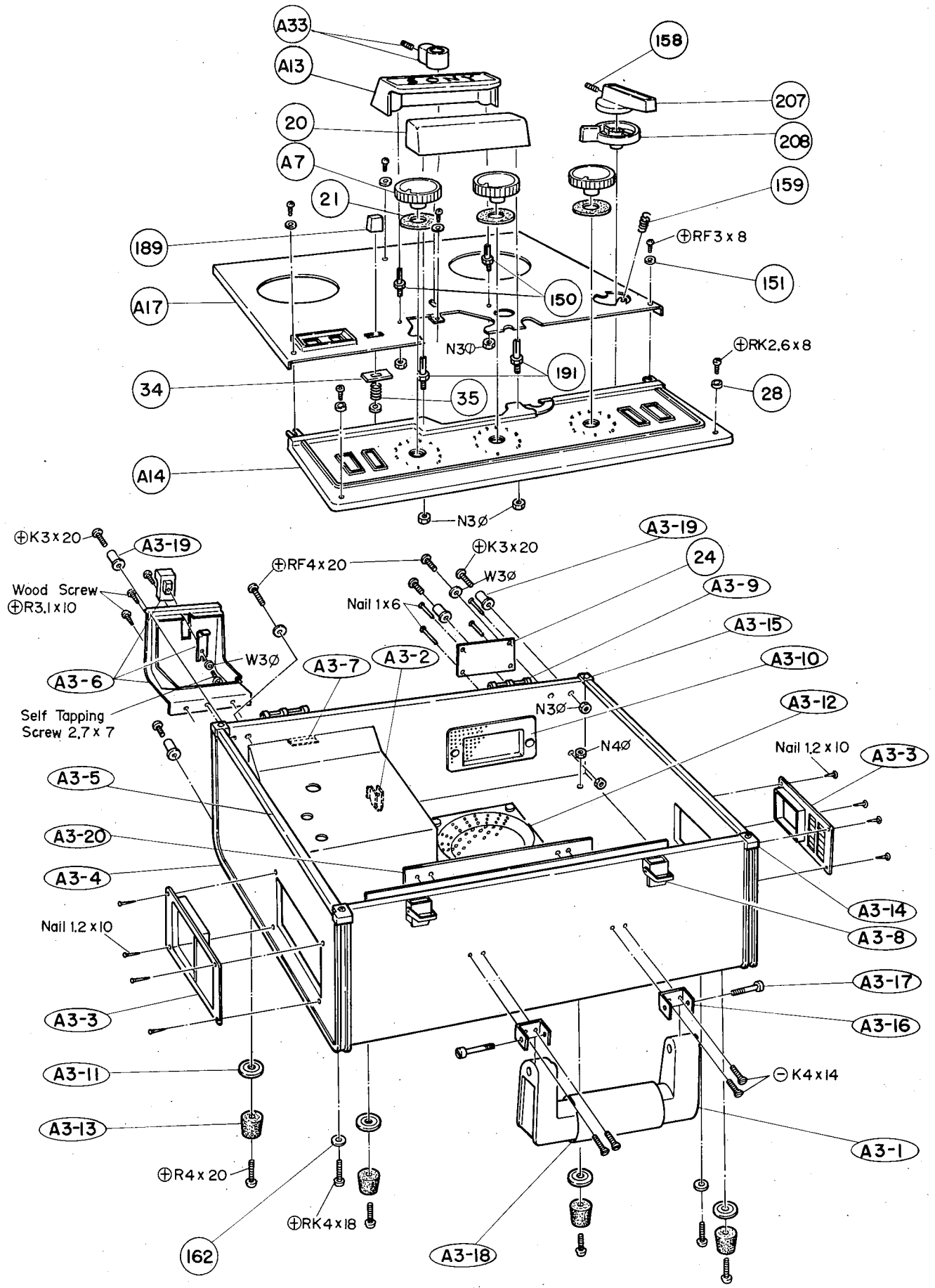
in RWD or F.F. mode



EXPLODED VIEW

Up to Serial No. 74,999

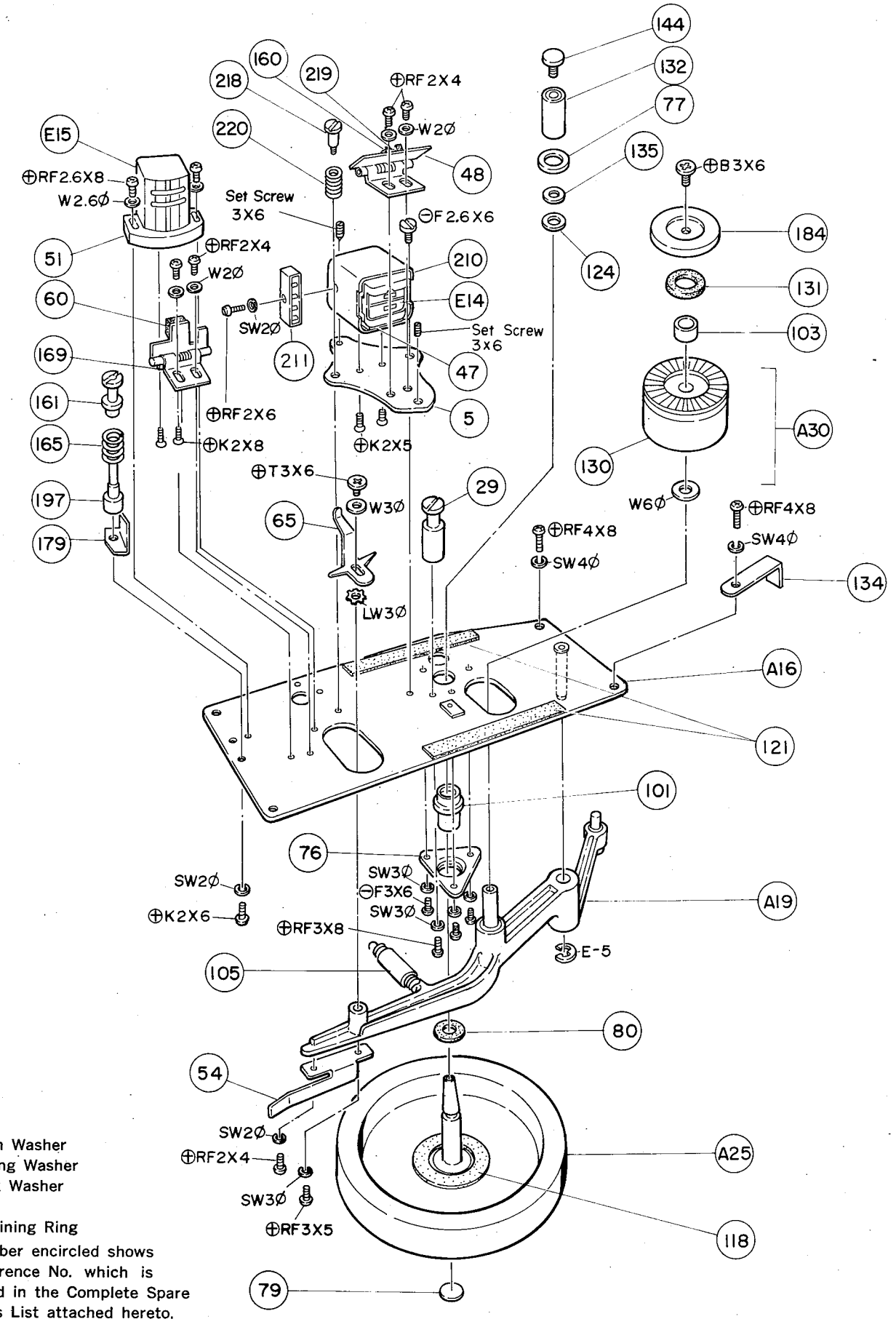
Cabinet —top view—



EXPLODED VIEW

Up to Serial No. 74,999

Head Deck —top view—



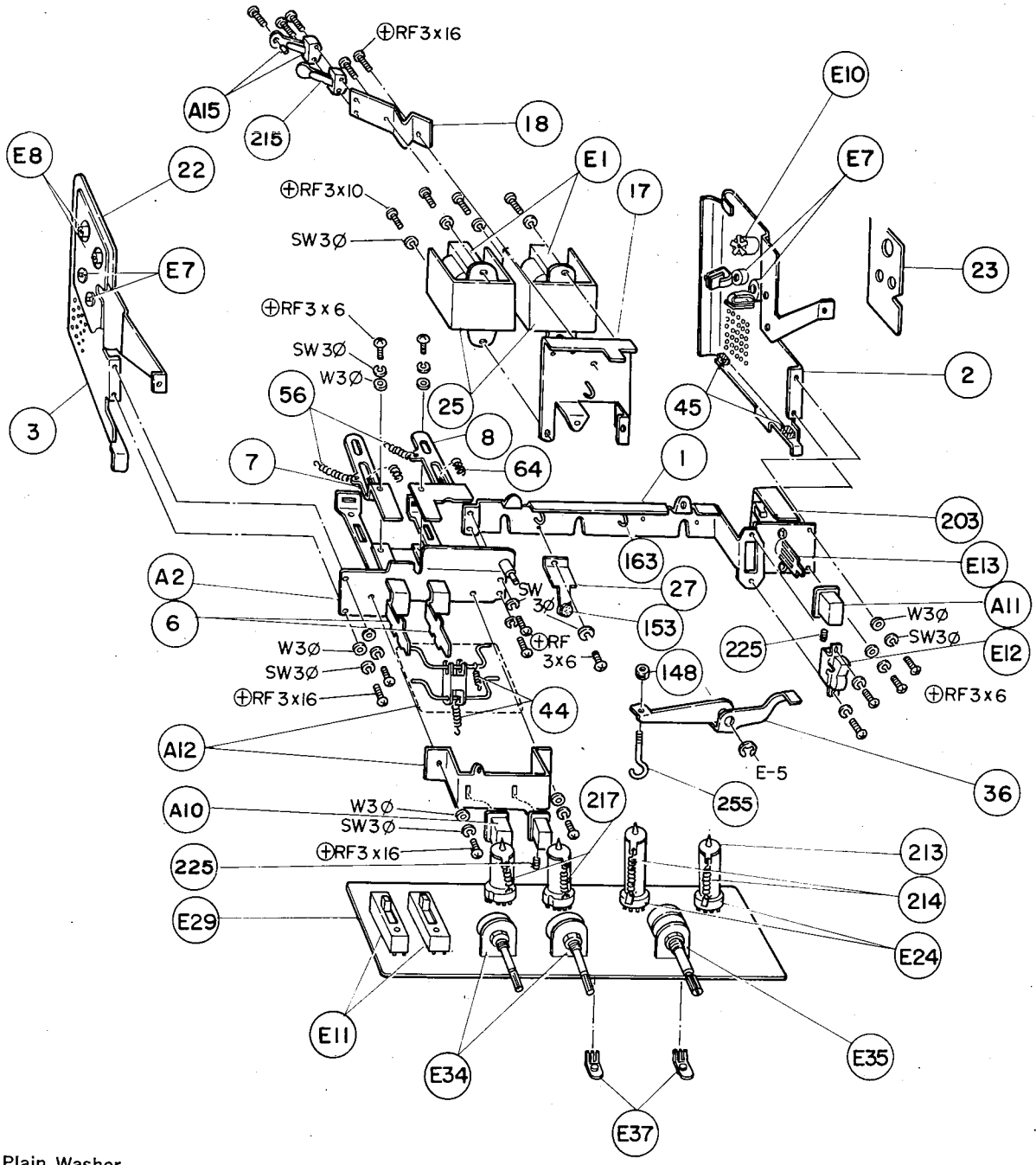
W: Plain Washer
SW: Spring Washer
LW: Lock Washer
N: Nut
E: Retaining Ring

■ Number encircled shows Reference No. which is listed in the Complete Spare Parts List attached hereto.

EXPLODED VIEW

Up to Serial No. 74,999

Mounted Circuit Board –top view–



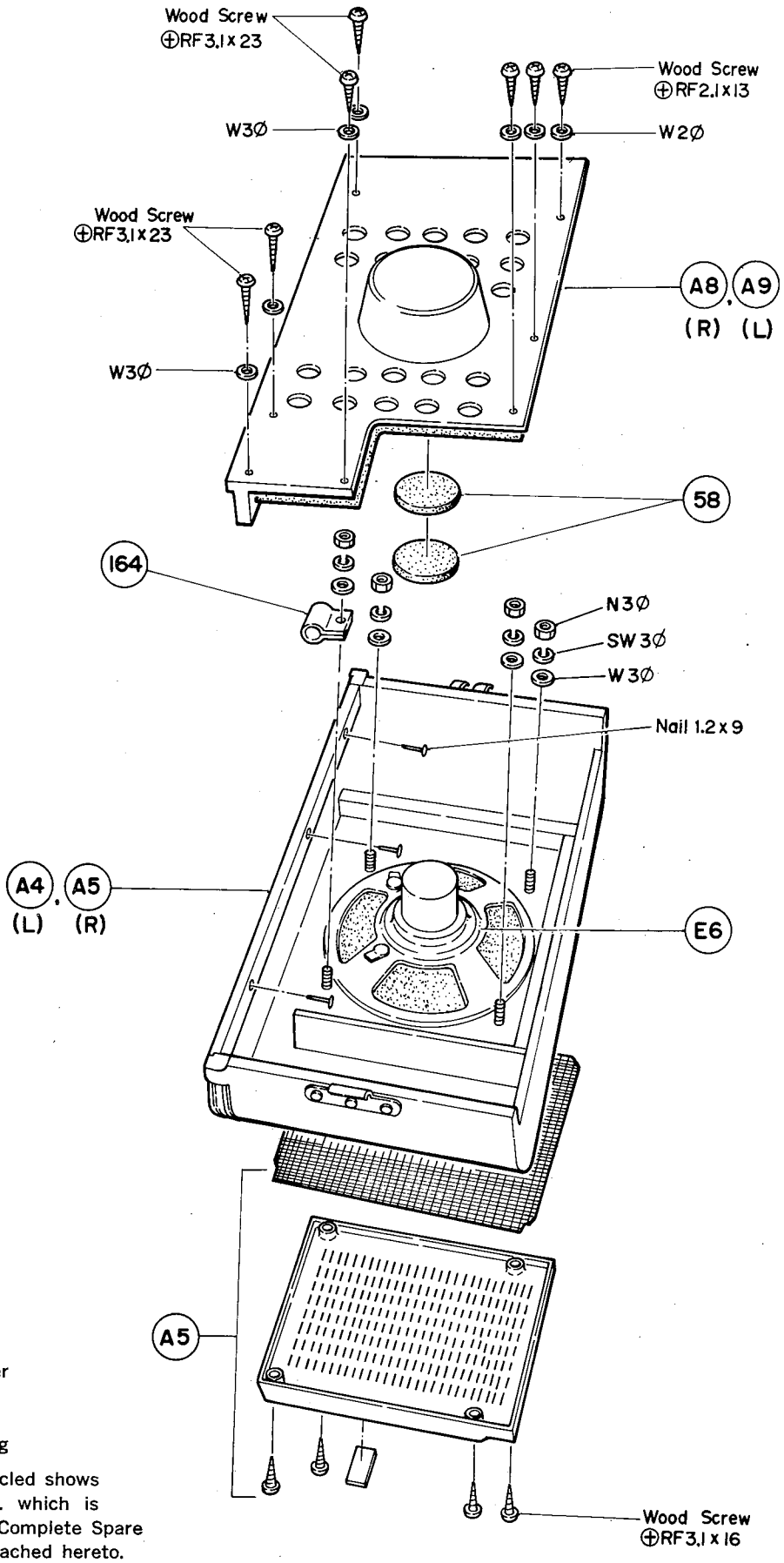
W: Plain Washer
SW: Spring Washer
LW: Lock Washer
N: Nut
E: Retaining Ring

■ Number encircled shows Reference No. which is listed in the Complete Spare Parts List attached hereto.

EXPLODED VIEW

Up to Serial No. 74,999

Cabinet –top view–



W: Plain Washer
SW: Spring Washer
LW: Lock Washer
N: Nut
E: Retaining Ring

■ Number encircled shows Reference No. which is listed in the Complete Spare Parts List attached hereto.

SONY CORPORATION

Complete Spare Parts List for TC-200 (LA)

(Up to Serial No. 74,999)

June, 1969

Ref. No.	Part No.	Description	Unit Price
I.	Mechanical Parts		
A1	X-34130-20	Base Plate Ass'y	
A2	X-34130-02	Rec./P.B. Switch Mounting Plate Ass'y	
A3	X-34130-03	Cabinet Ass'y, including	
A3-1	X-34090-08	Carrying Handle	
A3-2	3-413-028	Retainer, power cord	
A3-3	3-413-050	Escutcheon, jack	
A3-4	3-413-053	Sash (A)	
A3-5	3-413-055	Sash (C)	
A3-6	X-34130-19	Pocket Lid	
A3-7	3-413-060	Lock Plate (B)	
A3-8	3-413-080	Lock, cabinet lid	
A3-9	3-413-081	Hinge, detachable	
A3-10	3-413-125	Net, ventilation	
A3-11	3-413-101	Washer, rubber foot	
A3-12	3-402-777	Fan Cover	
A3-13	3-406-771	Rubber Foot	
A3-14	3-409-052	Cover (A), sash corner	
A3-15	3-409-053	Cover (B), sash corner	
A3-16	0-051-247	Bracket, carrying handle holding	
A3-17	0-051-248	Bolt, carrying handle holding	
A3-18	0-051-274	Cover, carrying handle	
A3-19	3-413-056	Foot, mold	
A3-20	3-413-111	Plate (S), carrying handle retaining	
A4	X-34130-06-5	Top Cover Ass'y, left	
A5	X-34130-06-6	Top Cover Ass'y, right	
A6	X-34130-07	Speaker Grille Ass'y	
A7	X-34130-09	Knob Ass'y, control	
A8	X-34130-10-3	Speaker Back Cover (A) Ass'y	
A9	X-34130-10-4	Speaker Back Cover (B) Ass'y	
A10	X-34130-11-	Pushbutton Ass'y, record	
A11	X-34130-12	Pushbutton Ass'y, power ON/OFF	
A12	X-34130-13	Lever Guide Ass'y	
A13	X-34130-14	Head Cover (A) Ass'y	
A14	X-34130-15	Control Panel Ass'y	
A15	X-34130-16	Equalizer Switch Ass'y	
A16	X-34130-17	Head Deck Ass'y	
A17	X-34130-18-2	Reel Panel Ass'y	

Ref No.	Part No.	Description	Unit Price
A18	X-34130-19	Pocket Lid Ass'y	
A19	X-00270-02	Pinch Lever Ass'y	
A20	X-00270-03	Idler Ass'y, capstan	
A21	X-00270-10	Idler Shaft (C) Ass'y	
A22	X-00270-13	Cam Ass'y, fast forward	
A23	X-00270-19	Idler Ass'y, take-up	
A24	X-00270-25	Idler Ass'y, rewind	
A25	X-37010-11	Flywheel Ass'y	
A26	X-34020-15	Cam Ass'y, function selector	
A27	X-00370-04	Stepper Arm Ass'y	
A28	X-00370-05	Idler Arm Ass'y, rewind	
A29	X-34034-11	Idler Arm E Ass'y	
A30	X-34038-05	Pinch Roller Ass'y	
A31	X-00270-24	Reel Spindle Drum Ass'y	
A32	X-34090-08	Handle Grip Ass'y	
A33	X-34090-12	Knob Ass'y, speed selector	
A34	X-34090-48	Reel Table Ass'y, supply	
A35	X-34090-49	Reel Table Ass'y, take-up	
A36	X-34090-21	Idler Plate Ass'y	
A37	X-34090-29	Reel Table Ass'y, upper part	
A38	X-37010-06	Tack Label Ass'y 60 Hz	
A39	X-34130-21	Brake Lever Ass'y	
1	3-413-002	Control Frame	
2	3-413-003	Mounting Plate (A), jack	
3	3-413-004	Mounting Plate (B), jack	
4	3-413-005	Mounting Bracket, mechanical	
5	3-413-008	Adjusting Plate, rec./p.b. head	
6	3-413-009	Lever (A), push button	
7	3-413-010	Lever (B), push button	
8	3-413-011	Lever (C), push button	
9	3-413-016	Holder, meter	
10	3-413-017	Record Indicating Plate Holder (A)	
11	3-413-018	Record Indicating Plate Holder (B)	
12	3-413-019	Spring, record indicating plate Holder	
13	3-413-020	Record Indicating Plate (red)	
14	3-413-026	Bracket, record indicating plate holder	
15	3-413-027	Holder, pilot lamp	
16	3-413-030	Power Supply Chassis	
17	3-413-031	Mounting Bracket, output transformer	
18	3-413-032	Mounting Plate, equalizer switch	
19	3-413-033	Shield Plate, amplifier	
20	3-413-038	Head Cover (B)	
21	3-413-040	Felt, volume control knob	

Ref. No.	Part No.	Description	Unit Price
22	3-413-041	Escutcheon (A), input jack	
23	3-413-042	Escutcheon (B), output jack	
24	3-413-132	Name Plate	
25	3-413-064	Shield Cover, transformer	
26	3-413-065	Insulating Paper, printed circuit board	
27	3-413-066	Holder, control panel	
28	3-413-072	Washer, 2.6ø screw	
29	3-413-075	Tape Guide; right	
30	3-413-076	Mic. Holder F-96	
31	3-413-089	Lev r, instant stop	
32	3-413-090	Shaft, counter pulley	
33	3-413-091	Spacer, counter pulley shaft	
34	3-413-092	Cover, instant stop lever	
35	3-413-093	Spring, instant stop lever cover	
36	3-413-095	Lever (C), selector	
37	3-413-096	Meter Cushion (A); larger	
38	3-413-097	Meter Cushion (B); smaller	
39	3-413-098	Carton Box	
40	3-413-100	Bag, polyethylene	
41	3-413-104	Protecting Cover, jack ornamental plate (A)	
42	3-413-105	Protecting Cover, jack ornamental plate (B)	
43	3-413-106	Cushion (B), carton box	
44	3-413-108	Helical Spring, lever guide	
45	3-413-109	Insulating Rubber, printed circuit board	
46	3-413-110	Mounting Bracket, micro switch	
47	3-413-113	Spacer, rec./p.b. head	
48	3-413-114	Head Shield Plate (S)	
50	3-413-116	Holding Plate, AC socket	
51	3-413-117	Washer, erase head	
52	3-413-118	Shield Plate, jack	
53	3-413-119	Insulator Fiber, jack shield plate	
54	3-413-120	Spring, pinch lever	
55	3-413-121	Bag, polyethylene	
56	3-413-122	Helical Spring (IV)	
57	3-413-123	Push Rod (B)	
58	3-413-124	Rubber Cushion, vibration absorber	
59	3-413-126	Spring, instant stop lever	
60	3-413-127	Pad, erase head	
61	3-413-128	Tape Case Container	
64	3-413-131	Spring, record button	
65	3-413-134	Shifter (S), pat	
68	0-027-019	Support, idler guide	
69	0-027-020	Guide, idler	

Ref. No.	Part No.	Description	Unit Price
70	0-027-022	Plate (B), idler	
71	0-027-023	Plate, idler	
73	3-419-093	Brake Block (S)	
74	0-027-034	Friction Felt, supply reel	
75	0-027-035	Thin Washer 5ϕ	
76	0-027-036	Bearing Retainer	
77	0-027-038	Bearing Cover	
78	0-027-039	Nail, reel table	
79	0-027-040	Thrust Bearer (Vulcanized Fiber)	
80	0-027-058	Adjustment Washer	
81	0-027-111	Pull Rod (A)	
82	0-027-113	Pull Rod	
83	0-027-119	Take-up Spindle	
84	0-027-120	Shaft, supply	
89	0-027-126	Boss, idler	
93	0-027-131	Shaft, speed selector	
94	0-027-134	Stepper Shaft	
100	0-027-146	Reel Spindle Screw	
101	0-027-155	Drive Shaft Bearing	
102	0-027-170	Set Screw, motor; pulley	
103	0-027-181	Pinch Roller Spacer	
104	0-027-191	Helical Spring (A)	
105	0-027-193	Helical Spring (D)	
106	0-027-194	Helical Spring (E)	
107	0-027-197	Helical Spring (H)	
108	0-027-198	Spring, speed selector shaft	
109	0-027-200	Spring, brake block	
110	0-027-201	Reset Spring, fast forward	
111	0-027-207	Reset Spring	
114	0-027-215	Friction Plate	
115	0-027-216	Oil Ring 5ϕ	
116	0-027-220	Paper Washer 5ϕ	
117	0-027-221	Paper Washer 6ϕ	
118	0-027-236	Felt, oil retainer, flywheel	
120	0-027-245	Felt, rewind	
121	0-027-246	Felt, oil retainer	
122	0-027-247	Felt, oil retainer spindle	
123	0-027-249	Brake Felt (upper side)	
124	0-027-250	Oil Ring	
126	0-027-301	Friction Spring, reel table	
129	0-027-475	Boss, pinch roller	
130	0-027-477	Pinch Roller (B)	
131	0-027-479	Oil Ring, pinch roller	

Ref. No.	Part No.	Description	Unit Price
132	0-027-116 0-027-483	Capstan 60 Hz	
134	0-027-018	Cam Stopper, fast forward	
135	0-027-230	Retainer, oil ring	
136	3-701-021	Capstan Shaft	
138	0-037-017	Stepper Arm	
139	0-037-018	Spring, stepper	
140	0-027-017	Cam, take-up	
142	0-037-029	Motor Pulley	
143	0-037-040	Spring, idler	
144	0-037-220	Screw, capstan retainer	
145	0-037-240	Brake Spring	
146	0-037-247	Pin, speed selector shaft	
147	0-037-248	Washer, speed selector shaft	
148	0-037-249	Split Nut	
149	0-046-005	Function Selector Cam Shaft	
150	0-041-018	Mounting Stud, head cover A	
151	0-041-029	Washer, reel panel	
152	0-041-032	Retainer Plate, panel	
153	0-041-041	Washer, reel panel	
153	0-041-301	Cover, AC connector	
155	0-041-302	Cover, transformer	
156	0-045-040	Mounter, osc. transformer	
157	0-049-186	Felt, feed reel spindle	
159	0-051-340	Spring, fast forward	
160	0-051-363	Head Pad	
161	3-103-201	Tape Guide (B)	
162	3-103-206	Washer, special	
163	3-103-527	Rubber Staple	
164	3-103-956	Wire Retainer	
165	3-103-203	Spring, tape guide adjusting	
166	3-401-156	Spacer, miniature jack	
167	3-401-179	Lug, wire retainer	
169	3-402-655	Hinge, pad	
158	0-051-234	Screw, function selector knob	
170	3-402-682	Spacer, take-up shaft	
171	3-402-683	Spacer, supply shaft	
172	3-402-778	Mount Plate, motor	
176	3-402-814	Spacer, vibration absorber, motor	
179	3-402-788	Retainer Plate (B), tape	
180	3-402-831	Plate (A), insulator	
181	3-403-404	Stopper, instant stop lever	
182	3-403-405	Pull Plate, pinch lever	

Ref. No.	Part No.	Description	Unit Price
183	3-403-406	Spring, idler pressing	
184	3-403-425	Bracket, pinch roller stopper	
187	3-403-454	Set Screw, knob	
189	3-406-769	Knob, instant stop	
190	3-701-030	Self Label, serial number	
191	3-407-030	Mounting Stud, head cover (B)	
192	3-407-040	Pulley, counter belt	
193	3-407-042	Counter Belt	
194	3-407-071	Washer 4ϕ	
196	3-409-100	Plate, idler	
197	3-409-109	Shaft, tape guide	
199	3-409-081	Handle Grip (A)	)
200	3-409-082	Handle Grip (B)	)
201	3-409-083	Ornamental Plate, handle grip	)
202	3-409-087	Spacer, pulley	
203	3-409-107	Cover, AC switch	
207	3-410-013	Knob, function selector	
208	3-410-014	Lever, fast forward	
209	3-405-698	Holding Screw, electrolytic capacitor	
210	3-412-119	Shield Case A	
211	3-412-078	Terminal Strips, head	
212	0-006-050	Set Screw	
213	0-007-159	Clamp, vacuum tube	
214	0-007-239	Holding Spring, vacuum tube	
215	0-007-296	Equalizer Switch	
216	0-007-313	Wire Retainer	
217	0-007-238	Holding Spring Vacuum Tube	
218	0-056-108	Screw, head adjusting	
219	0-056-312	Head Pad	
220	3-005-001	Spring, head adjusting	
221	3-701-007	Tie-up Belt B	
222	3-701-011	Tack Label 60 A	
223	3-701-012	Tack Label 60 B	
224	Y-20071-01-1	Tape Index Counter 4 Type	

Screw, Washer & Nut

	Screw
7-621-255-22	(+) RF 2x4
7-621-259-52	(+) RF 2.6x8

Ref. No.	Part No.	Description	Unit Price
		Retaining Ring	
	7-624-106-01	E-3 ----------	
	7-624-109-01	E-5 ----------	
		Nail	
	7-629-202-16	K 1.2ϕ x 9 ----------	
	7-629-100-86	R 1ϕ x 6 ----------	
	7-629-102-16	R 1.2ϕ x 19 ----------	
		Accessories	
B1	3-790-181-	Instruction Manual ----------	
B2	8-811-960-	Microphone F-96 (MTL) ----------	
B3	7-491-001-	Desiccant ----------	
B4	0-037-241-	Bag, earphone ----------	
B5	1-506-105-01	Pin Plug; red ----------	
B6	1-506-105-02	Pin Plug; black ----------	
B7	1-506-012-	Plug, miniature ----------	
B8	X-37010-08-	Head Ribbon Ass'y ----------	
B9	3-793-011-	Check Sheet ----------	
B10	3-796-111-	Inspection Card ----------	
B11	3-701-020-	Bag, check sheet SS ----------	
B12	1-534-104-	Connection Cord RK-58 ----------	
B13	3-793-030-	Booklet, SONY tape ----------	
B14	8-860-107-	Reel R-7A, without box ----------	

II. **Electrical Parts**

		Transistor 2SC318	Q101,201 ------
		Diode 1T22G	D101,201 ------
		Diode 1S125	D1 ----------
E1	1-427-085-	Transformer, output	T101,201 ------
E2	1-433-002-	Transformer, osc.	T2 ----------
E3	1-441-078-	Transformer, power	T1 ----------
E4	1-431-040-	Dummy Coil	L1 ----------
E5	1-441-105-	Transformer, heater	T3 ----------
E6	1-502-080-	Speaker	SP101,201 -----
E7	1-507-053-	Jack F, miniature	J101,201,103, 203 ----------

Ref. No.	Part No.	Description		Unit Price
E8	1-507-154-	Jack, 2P pin	J102,202 ------	
E9	1-534-017-	Connection Cord, speaker w/ plug	P101,201 ---	
E10	1-509-029-	Rec./P.B. Connector	CNJ-3 ---------	
E11	1-513-164-	Switch, slide (REC./P.B. selector)	S101,201 -	
E12	1-514-091-	Switch, seesaw	S3,1,2 --------	
E13	1-514-140-	Power Switch, push button	S1 ----------	
E14	8-821-242-	Rec./P.B. Head PP30-4202	RPH101,201 ----	
E15	8-826-629-	Erase Head EF18-2902	EH101,201 -----	
E16	8-832-624-	Motor IC-624S2 ----------		
E17	1-532-007-	Fuse ----------		
E18	1-533-006-	Fuse Holder ----------		
E19	1-518-017-	Pilot Lamp 0.15A	PL101,201 -----	
E20	1-517-003-	Socket, pilot lamp	PL101,201 -----	
E21	1-509-016-	AC Socket	CNJ-1 ---------	
E22	1-524-005-	Level Meter	ME101,201 -----	
E23	1-514-093-	Switch, micro ----------		
E24	1-526-043-	Vacuum Tube Socket 7 Pin ----------		
E25	1-526-044-	Vacuum Tube Socket 9 Pin ----------		
E26	1-526-005-	Vacuum Tube Socket 7 Pin ----------		
E27	1-508-014-	Connector Plug 12P ----------		
E28	1-509-061-	Connector Socket 12P ----------		
E29	1-538-125-15	Printed Circuit Board ----------		
E30	1-536-028-	Terminal Strips 1-2P ----------		
E31	1-536-008-	Terminal Strips 2P-5 ----------		
E32	1-536-144-	Terminal Strips 1-1P ----------		
E33	1-534-083-	Power Cord ----------		
		Potentiometer		
E34	1-221-364-	200kΩ (A)	R109,209 ------	
E35	1-221-529-	500kΩ	R108,208 ------	
E36	1-221-365-	200kΩ (B)	R128,228 ------	
		Carbon Resistor, adjustable		
E37	1-221-359-	10kΩ (B)	R122,222 ------	
		MP Capacitor		
E38	1-117-034-	1.5μF+0.5μF 250V AC ±10%	C10-1, 10-2 ---	
E39	1-117-008-	0.5μF 250WV ±20%	C8 ----------	

Ref. No.	Part No.	Description		Unit Price
E40	1-527-057-)	Vacuum Tube 6267 (S)	V101 ----------	
	1-527-027-)	Vacuum Tube 6267	V201 ----------	
E41	1-527-056-	Vacuum Tube 30A5	V1,102,202 ----	
		Carbon Resistor		
	1-204-904-	330kΩ RD1/4L ±5%	R104,204 (noiseless) ----	
	1-204-901-	100kΩ RD1/4L ±5%	R105,205 ----	
	1-204-909-	15kΩ RD1/4L ±5%	R103,203 ----	
	1-203-104-	150kΩ RD1/4L ±5%	R101,201 ----	
	1-203-118-	1MΩ RD1/4L ±5%	R113,213 ----	
	1-203-149-	470kΩ RD1/4L ±5%	R114,214 ----	
	1-203-109-	220kΩ RD1/4L ±5%	R112,212 ----	
	1-203-123-	120kΩ RD1/4L ±5%	R120,220 ----	
	1-203-097-	56kΩ RD1/4L ±5%	R6 ----	
	1-203-095-	47kΩ RD1/4L ±5%	R5,116,216 ----	
	1-203-091-	36kΩ RD1/4L ±5%	R119,219 ----	
	1-203-089-	33kΩ RD1/4L ±5%	R121,221 ----	
	1-203-130-	18kΩ RD1/4L ±5%	R4,7 ----	
	1-203-069-	10kΩ RD1/4L ±5%	R123,223,126,226 ----	
	1-203-065-	5.6kΩ RD1/4L ±5%	R8,202 ----	
	1-203-050-	2.7kΩ RD1/4L ±5%	R1,2,118,218 ----	
	1-203-037-	1.2kΩ RD1/4L ±5%	R9 ----	
	1-203-018-	220Ω RD1/4L ±5%	R106,206 ----	
	1-203-011-	100Ω RD1/4L ±5%	R124,224,125,225 ----	
	1-203-127-	68Ω RD1/4L ±5%	R110,210 ----	
	1-203-100-	100kΩ RD1/4L ±5%	R129,229 ----	
	1-203-010-	82Ω RD1/4L ±5%	R10 ----	
	1-203-032-	1kΩ RD1/2L ±5%	R2 ----	
	1-203-899-	150Ω RD1/2L ±5%	R115,215 ----	
	1-203-503-	50Ω RD1L ±5%	R3 ----	
	1-203-178-	39kΩ RD1/4L ±5%	R117,217 ----	
	1-203-061-	3.9kΩ RD1/4L ±5%	R107,207 ----	
	1-203-051-	1.8kΩ RD1/4L ±5%	R102,202 ----	
		Wire Wound Resistor		
	1-207-038-	8Ω 2W ±10%	R127,227 ----------	
	1-207-049-	150Ω 4W ±10%	R1 ----------	

Ref. No.	Part No.	Description	Unit Price
		Mylar Capacitor	
	1-105-044-12	0.05μF 50WV ±20% C101,201,104,204 (MFL) --	
	1-105-041-12	0.01μF 50WV ±20% C116,216 (MFL) ----------	
	1-105-089-12	0.002μF 50WV ±10% C111,211 (MX) ----------	
	1-105-671-12	0.0068μF 50WV ±10% C112,212,113,213 (MX) ---	
	1-105-068-12	0.03μF 50WV ±10% C105,205 (MX) ----------	
	1-105-044-12	0.05μF 50WV ±20% C108,208 (MX) ----------	
	1-105-671-12	0.0068μF 50WV ±10% C119,219 (MFL) ----------	
		Oil Tubular Capacitor	
	1-115-058-	0.01μF 600WV ±20% C110,210 ----------	
	1-115-045-	0.1μF 600WV ±20% C2 ----------	
		Silvered Mica Capacitor	
	1-107-007-	500pF 500WV ±10% C120,220 ----------	
	1-109-064-	500pF 1000WV ±20% C117,217 ----------	
	1-109-057-	750pF 1000WV ±10% C6 ----------	
	1-109-062-	0.003μF 1000WV ±10% C7 ----------	
		Electrolytic Capacitor	
	1-121-192-	10μF 15V C102,202 ----------	
	1-121-139-	50μF 15V C103,203 ----------	
	1-119-104-	50μF 3V C106,206 ----------	
	1-119-056-	100μF 10V C109,209 ----------	
	1-119-038-	25μF 50V C5 ----------	
	1-119-063-	1μF 150V C107,207,9 ----------	
	1-119-105-	3μF 150V C4 ----------	
	1-121-002-	100μF 150V C3 (w/ Lug) ----------	
	1-125-007-	100μFx2 180V C1-1, 2 (block) ----------	
		Polyethylene Capacitor	
	1-129-027-	470pF 600WV ±10% C114,214,115,215,118,218-	

Complete Spare Parts List for TC-200 (for USA)

(For the sets with Serial No. from 75,000 to 80,000)

June, 1969

Ref. No.	Part No.	Description	Unit Price
I.	Mechanical Parts		
A1	X-34130-20	Chassis Ass'y	
A2	X-34130-02	Rec./P.B. Switch Mounting Plate Ass'y	
A7	X-34130-09	Control Knob Ass'y	
A10	X-34130-11	Record Push Button Ass'y	
A11	X-34130-12	Power Push Button Ass'y	
A12	X-34130-13	Lever Guide Ass'y	
A13	X-34130-14	Head Cover (A) Ass'y	
A14	X-34130-15	Control Panel Ass'y	
A15	X-34130-16	Equalizer Switch Ass'y	
A16	X-34130-17	Head Deck Ass'y	
A17	X-34130-18-2	Reel Panel Ass'y	
A18	X-34130-19	Pocket Lid Ass'y	
A19	X-00270-02	Pinch Lever Ass'y	
A20	X-00270-03	Capstan Idler Ass'y	
A21	X-00270-10	Cam Ass'y, fast forward	
A22	X-00270-13	Idler Ass'y	
A23	X-00270-19	Idler Ass'y, take-up	
A24	X-00270-25	Idler Ass'y, rewind	
A25	X-37010-11	Capstan Shaft w/ Flywheel Ass'y	
A26	X-34020-15	Cam Ass'y, function selector	
A27	X-00370-04	Stepper Arm Ass'y	
A28	X-00370-05	Idler Arm Ass'y, rewind	
A29	X-34034-11	Idler Arm E Ass'y	
A30	X-34038-05	Pinch Roller Ass'y	
A31	X-00270-24	Reel Spindle Drum Ass'y	
A33	X-34090-12	Knob Ass'y, speed selector	
A34	X-34090-48	Reel Table Ass'y, supply	
A35	X-34090-49	Reel Table Ass'y, take-up	
A36	X-34090-21	Idler Plate Ass'y	
A38	X-37010-06	Tack Label Ass'y 60 Hz	
A39	X-34130-21	Brake Lever Ass'y	
A43	X-34132-01	Speaker Grille Ass'y	
A44	X-34132-03	Cabinet Ass'y, including	
A47	X-34132-02	Cabinet Lid	
A44-1	3-413-208	Cabinet	
A44-2	3-412-612	Lock, cabinet lid	
A44-3	3-103-555	Hinge, detachable	
A44-4	3-418-163	Holder, carrying handle	

Ref. No.	Part No.	Description	Unit Price
A44-5	3-413-201	Washer, carrying handle	
A44-6	3-413-028	Retainer, power cord	
A44-7	3-413-029	Holder, cord	
A44-8	3-413-050	Escutcheon, jack	
A44-9	3-413-053	Sash (A)	
A44-10	3-413-056	Foot, mold	
A44-11	3-413-057	Lid, pocket	
A44-12	3-413-058	Knob, pocket lid	
A44-13	3-413-059	Plate (A), lock	
A44-14	3-413-060	Plate (B), lock	
A44-15	3-413-101	Washer, rubber foot	
A44-16	3-413-125	Net, ventilation	
A44-17	3-402-777	Cover, fan	
A44-18	3-406-771	Foot, rubber	
A44-19	3-409-052	Corner Plate (A), sash	
A44-20	3-409-053	Corner Plate (B), sash	
A44-21	3-413-055	Sash (C)	
A44-22	1-534-083	Cord, power	
A45	X-34132-04	Holder Ass'y, reel	
A46	X-34132-05	Carton Box Ass'y	
A47	X-34132-02	Cabinet Lid Ass'y	
1	3-413-002	Control Frame	
2	3-413-003	Mounting Plate (A), jack	
3	3-413-004	Mounting Plate (B), jack	
4	3-413-005	Mounting Bracket, mechanical	
5	3-413-008	Adjusting Plate, rec./p.b. head	
6	3-413-009	Lever (A), push button	
7	3-413-010	Lever (B), push button	
8	3-413-011	Lever (C), push button	
9	3-413-016	Holder, meter	
10	3-413-017	Holder (A), record indicating plate	
11	3-413-018	Holder (B), record indicating plate	
12	3-413-019	Spring, record indicating plate holder	
13	3-413-020	Indicating Plate (red), record	
14	3-413-026	Bracket, record indicating plate holder	
15	3-413-027	Holder, pilot lamp	
16	3-413-030	Chassis, power supply	
17	3-413-031	Mounting Bracket, output transformer	
18	3-413-032	Mounting Plate, equalizer switch	
19	3-413-033	Shield Plate, amplifier	
20	3-413-038	Cover (B), head	
21	3-413-040	Felt, volume control knob	
22	3-413-041	Escutcheon (A), input jack	

Ref. No.	Part No.	Description	Unit Price
23	3-413-042	Escutcheon (B), output jack	
25	3-413-064	Shield Cover, transformer	
26	3-413-065	Insulating Paper, printed circuit board	
27	3-413-066	Holder, control panel	
29	3-413-075	Tape Guide; right	
31	3-413-089	Lever, instant stop	
32	3-413-090	Shaft, counter pulley	
33	3-413-091	Spacer counter pulley shaft	
34	3-413-092	Cover, instant stop lever	
35	3-413-093	Spring, instant stop lever cover	
36	3-413-095	Lever (C), selector	
37	3-413-096	Meter Cushion (A); large	
38	3-413-097	Meter Cushion (B); smaller	
41	3-413-104	Protecting Cover, jack ornamental plate (A)	-
42	3-413-105	Protecting Cover, jack ornamental plate (B)	-
44	3-413-108	Helical Spring	
45	3-413-109	Insulating Rubber; printed circuit board	
46	3-413-110	Mounting Bracket, micro switch	
47	3-413-113	Spacer, rec./p.b. head	
48	3-413-114	Shield Plate (S), head	
50	3-413-116	Holding Plate, AC socket	
51	3-413-117	Washer, erase head	
52	3-413-118	Shield Plate, jack	
53	3-413-119	Insulating Fiber, jack shield plate	
54	3-413-120	Spring, pinch lever	
55	3-413-121	Bag, polyethylene	
56	3-413-122	Helical Spring (IV)	
57	3-413-123	Push Rod (B)	
59	3-413-126	Spring, instant stop lever	
60	3-413-127	Pad	
64	3-413-131	Spring, record button	
65	3-413-134	Shifter, pat	
68	0-027-019	Support, idler guide	
69	0-027-020	Guide, idler	
70	0-027-022	Plate (B), idler	
71	0-027-023	Plate, idler	
73	3-419-093	Brake Block (S)	
74	0-027-034	Friction Table	
75	0-027-035	Thin Washer 5φ	
76	0-027-036	Retainer, bearing	
77	0-027-038	Cover, bearing	
78	0-027-039	Nail, reel table	
79	0-027-040	Thrust Bearer (Vulcanized Fiber)	

Ref. No.	Part No.	Description	Unit Price
80	0-027-058	Adjustment Washer	
81	0-027-111	Pull Rod (A)	
82	0-027-113	Pull Rod	
83	0-027-119	Spindle, take-up	
84	0-027-120	Shaft, supply	
89	0-027-126	Boss, idler	
93	0-027-131	Shaft, speed selector	
94	0-027-134	Stepper Shaft	
100	0-027-146	Screw, reel spindle	
X101	0-027-155	Bearing, drive shaft	
102	0-027-170	Set Screw, motor pulley	
103	0-027-181	Spacer, pinch roller	
104	0-027-191	Helical Spring (A)	
105	0-027-193	Helical Spring (D)	
106	0-027-194	Helical Spring (E)	
107	0-027-197	Helical Spring (H)	
108	0-072-198	Spring, speed selector shaft	
109	0-027-200	Spring, brake block	
110	0-027-201	Reset Spring, fast forward	
111	0-027-207	Reset Spring	
114	0-027-215	Friction Plate	
115	0-027-216	Oil Ring 5ϕ	
116	0-027-220	Paper Washer 5ϕ	
117	0-027-221	Paper Washer 6ϕ	
118	0-027-236	Felt, oil retainer, flywheel	
120	0-027-245	Felt, rewind	
121	0-027-246	Felt, oil retainer	
122	0-027-247	Felt, oil retainer spindle	
123	0-027-249	Brake Felt (upper side)	
124	0-027-250	Oil Ring	
126	0-027-301	Friction Spring, reel table	
129	0-027-475	Boss, pinch roller	
130	0-027-477	Pinch Roller (B)	
131	0-027-479	Oil Ring, pinch roller	
132	0-027-116 0-027-483	Capstan 60 Hz	
134	0-027-018	Cam Stopper, fast forward	
135	0-027-230	Retainer, oil ring	
136	3-701-021	Capstan Shaft	
138	0-037-017	Stepper Arm	
139	0-037-018	Spring, stepper	
140	0-027-017	Cam, take-up	
142	0-037-029	Motor Pulley	

Ref. No.	Part No.	Description	Unit Price
143	0-037-040	Spring, idler	
144	0-037-220	Screw, capstan retainer	
145	0-037-240	Spring, brake	
146	0-037-247	Pin, speed selector shaft	
147	0-037-248	Washer, speed selector shaft	
148	0-037-249	Split Nut	
149	0-041-005	Shaft, function selector cam	
150	0-041-018	Mounting Stud, head cover A	
151	0-041-029	Washer, reel panel	
152	0-041-032	Retainer Plate, panel	
153	0-041-041	Washer, reel panel	
154	0-041-301	Cover, AC connector	
155	0-041-302	Cover, transformer	
156	0-045-040	Mounter, osc. transformer	
157	0-049-186	Felt, feed reel spindle	
158	0-051-234	Set Screw, function selector knob	
159	0-051-340	Spring, fast forward	
160	0-051-363	Head Pad	
161	3-103-201	Tape Guide (B)	
162	3-103-206	Washer, special	
163	3-103-527	Rubber Staple	
164	3-103-956	Retainer, wire	
165	3-103-203	Spring, tape guide adjusting	
166	3-401-156	Spacer, miniature jack	
167	3-401-179	Lug, wire retainer	
169	3-402-655	Hinge, pad	
170	3-402-682	Spacer, take-up shaft	
171	3-402-683	Spacer, supply shaft	
172	3-402-778	Mount Plate, motor	
176	3-402-814	Spacer, vibration absorber, motor	
179	3-402-788	Retainer Plate (B), tape	
180	3-402-831	Plate (A), insulator	
181	3-403-404	Stopper, instant stop lever	
182	3-403-405	Pull Rod, pinch lever	
183	3-403-406	Spring, idler pressing	
184	3-403-425	Bracket, pinch roller stopper	
187	3-403-454	Set Screw, knob	
190	3-701-030	Self Label, serial No.	
189	3-406-769	Knob, instant stop lever	
191	3-407-030	Mounting Stud, head cover (B)	
192	3-407-040	Pulley, counter belt	
193	3-407-042	Belt, counter	
194	3-407-071	Washer 4ϕ	

Ref. No.	Part No.	Description	Unit Price
195	3-409-115	Indicating Plate, defeat	
197	3-409-109	Shaft, tape guide	
202	3-409-087	Spacer, motor pulley	
207	3-410-013	Knob, function selector	
208	3-410-014	Lever, fast forward	
209	3-405-698	Holding Screw, electrolytic capacitor	
210	3-412-119	Shield Case A	
211	3-412-078	Terminal Strips, head	
212	0-006-050	Set Screw	
213	0-007-159	Clamp, vacuum tube	
214	0-007-239	Holding Spring, vacuum tube	
215	0-007-296	Equalizer Switch	
217	0-007-238	Holding Spring, vacuum tube	
218	0-056-108	Screw, head adjusting	
219	0-056-312	Head Pad	
220	3-005-001	Spring, head adjusting	
221	3-701-007	Tie-up Belt B	
222	3-701-011	Tack Label 60A	
223	3-701-012	Tack Label 60B	
224	Y-20071-01-1	Tape Index Counter 4 Type	
225	3-413-077	Set Screw, push button	
233	3-103-206	Washer, cabinet	
254	3-413-070	Spacer Plate, lock rod	
255	3-413-071	Pull Rod, selecting lever	
260	3-413-114	Shield Plate	
261	3-413-129	Shaft, idler arm C	
262	3-413-141	Shaft, pinch lever	
265	3-418-142	Name Plate, cabinet	
266	3-418-204	Handle Grip	
267	0-037-092	Holder, knob	
268	0-051-210	Spring (A), pull rod	
269	3-417-609	Felt, radiator	
270	3-416-627	Cushion A, vibration absorber	
271	3-413-012	Guide, lever	
272	0-037-015	Retainer, cam shaft	
273	3-403-032	Stepper, rec./p.b. stopper	
274	3-403-408	Shaft, instant stop lever	
275	3-406-773	Core, function selector knob	
276	0-004-200	Muting Switch B	
277	0-007-333	Muting Switch A	

Ref. No.	Part No.	Description	Unit Price
	Accessories		
B21	3-790-210	Instruction Manual	
B17	8-811-970	Microphone F-97 (LM)	
B3	7-491-001	Desiccant	
B4	0-037-241	Bag, earphone	
B5	1-506-105-01	Pin Plug; red	
B6	1-506-105-02	Pin Plug; black	
B7	1-506-012	Plug, miniature	
B8	X-37010-08	Head Ribbon Ass'y	
B9	3-793-011	Check Sheet	
B10	3-796-111	Inspection Card	
B11	3-701-020	Bag, check sheet SS	
B12	1-534-104	Connection Cord RK-58	
B13	3-703-030	Booklet, SONY tape	
B14	8-860-107	Reel R-7A, without box	
	Screw, Washer & Nut		
		Screw	
	7-621-255-22	(+) RF 2x4	
	7-621-259-52	(+) RF 2.6x8	
	7-621-259-32	(+) RF 2.6x5	
	7-621-259-59	(+) RF 2.6x8	
	7-621-261-22	(+) RF 3x4	
	7-621-261-32	(+) RF 3x5	
	7-621-261-42	(+) RF 3x6	
	7-621-261-52	(+) RF 3x8	
	7-621-261-58	(+) RF 3x8	
	7-621-262-02	(+) RF 3x16	
	7-621-261-55	(+) RF 3x8	
	7-621-268-42	(+) RF 4x6	
	7-621-268-55	(+) RF 4x8	
	7-621-269-22	(+) RF 4x20	
	7-621-261-82	(+) RF 3x14	
	7-621-261-35	(+) RF 3x5	
	7-621-261-25	(+) RF 3x4	
	7-261-263-12	(+) RF 3x26	
	7-621-261-45	(+) RF 3x6	
	7-621-262-22	(+) RF 3x20	
	7-621-255-42	(+) RF 2x6	

Ref. No.	Part No.	Description	Unit Price
	7-621-268-52	(+) RF 4x8	
	7-621-256-12	(+) RF 2x18	
	7-621-311-45	(-) F 3x6	
	7-621-311-52	(-) F 3x8 (UP-3)	
	7-621-311-55	(-) F 3x8 (CM)	
	7-621-309-45	(-) F 2.6x6	
	7-621-318-55	(-) F 4x8	
	7-621-555-52	(+) K 2x8	
	7-621-555-32	(+) K 2x5	
	7-621-555-42	(+) K 2x6	
	7-621-519-22	(+) K 4x20	
	7-621-669-18	(+) RK 4x18	
	7-621-119-05	(-) R 4x16	
	7-621-461-42	(+) T 3x6	
	7-621-770-25	(+) B 3x6	
		Setting Screw	
	7-621-713-46	3 x 6	
		Wood Screw	
	7-621-852-37	(+) R 2.7x10	
	7-621-844-12	(+) R 3.1x13	
	7-621-840-77	(+) R 2.1x6.3	
	7-621-848	(+) R 2.7x10	
	7-621-843-28	(+) R 3.1x10	
	7-621-852-38	(+) K 2.7x10	
	7-621-850-82	(+) K 2.1x10	
	7-621-852-32	(+) K 2.7x10	
	7-621-744-22	(-) R 3.1x8	
	7-621-848-39	(+) RK 2.7x10	
		Nail	
	7-629-202-16	K 1.2ϕ x 9	
	7-629-100-86	R 1ϕ x 6	
	7-629-102-16	R 1.2ϕ x 9	
		Self Tapping Screw	
	7-621-723-15	R 2.6ϕ x 7	
	7-621-721	2.6ϕ x 5	

Ref. No.	Part No.	Description	Unit Price
		Washer	
	7-623-105-12	2ϕ ----------	
	7-623-108-12	3ϕ ----------	
	7-623-107-12	2.6ϕ ----------	
	7-623-113-12	6ϕ ----------	
	7-623-116-12	6ϕ ----------	
		Spring Washer	
	7-623-114-12	6ϕ ----------	
	7-623-117-12	6ϕ ----------	
	7-623-205-22	2ϕ ----------	
	7-623-207-22	2.6ϕ ----------	
	7-623-208-22	3ϕ ----------	
	7-623-210-22	4ϕ ----------	
		Nut	
	7-622-108-02	3ϕ ----------	
	7-622-110-02	4ϕ ----------	
		Split Pin	
	7-626-208-31	2.5 x 18 ----------	
		Retaining Ring	
	7-624-106-01	E-3 ----------	
	7-624-109-01	E-5 ----------	
	3-005-010-00	----------	
		Lug	
	7-623-508-01	3ϕ ----------	

Ref. No.	Part No.	Description		Unit Price
II.	Electrical Parts			
		Transistor 2SC318	Q101,201 ------	
		Diode 1T22G	D101,201 ------	
E1	1-427-085	Transformer, output	T101,201 ------	
E2	1-433-002	Transformer, osc.	T2 ----------	
E3	1-441-078	Transformer, power	T1 ----------	
E4	1-431-040	Dummy Coil	L1 ----------	
E5	1-441-105	Transformer, heater	T3 ----------	
E73	1-502-135	Speaker	SP101,201 -----	
E7	1-507-053	Jack F, miniature	J101,201,103, 203 ----------	
E8	1-507-154	Jack, 2P pin	J102,202 ------	
E10	1-509-029	Rec./P.B. Connector	CNJ3 ----------	
E11	1-513-164	Switch, slide (Rec./P.B. Selector)	S101,201 -	
E12	1-514-091	Switch, seesaw	S3,1,2 --------	
E13	1-514-140	Power Switch, push button	S1 ----------	
E14	8-821-242	Rec./P.B. Head PP30-4202	RPH101,201 ----	
E15	8-826-629	Erase Head EF18-2902	EH101,201 -----	
E16	8-832-624	Motor IC-624S2	----------	
E17	1-532-007	Fuse ----------		
E18	1-533-006	Fuse Holder ----------		
E19	1-518-017	Pilot Lamp 0.15A	PL101,201 -----	
E20	1-517-003	Socket, pilot lamp	PL101,201 -----	
E21	1-509-016	AC Socket	CNJ-1 ---------	
E22	1-524-005	VU Meter	ME101,201 -----	
E23	1-514-093	Switch, micro ----------		
E24	1-526-043	Vacuum Tube Socket 7 Pin ----------		
E25	1-526-044	Vacuum Tube Socket 9 Pin ----------		
E26	1-526-005	Vacuum Tube Socket 7 Pin ----------		
E27	1-508-014	Connector Plug 12P ----------		
E28	1-509-061	Connector Socket 12P ----------		
E29	1-538-125-15	Printed Circuit Board ----------		
E30	1-536-028	Terminal Strips 1-2P ----------		
E31	1-536-008	Terminal Strips 2P-5 ----------		
E32	1-536-144	Terminal Strips 1-1P ----------		
E33	1-534-083	Power Cord ----------		
		Potentiometer		
E34	1-221-364	200kΩ (A)	R109,209 ------	
E35	1-221-529	500kΩ	R108,208 ------	
E36	1-221-365	200kΩ (B)	R128,228 ------	

Ref. No.	Part No.	Description		Unit Price
		Carbon Resistor, adjustable		
E37	1-221-359	10kΩ (B)	R122,222 ------	
		MP Capacitor		
E38	1-117-034	1.5μF+0.5μF 250V AC ±10%	C10-1, 10-2 ---	
D39	1-117-008	0.5μF 250WV ±20%	C8 ----------	
E40	1-525-057)	Vacuum Tube 6267 (S)	V101 ----------	
	1-525-027)	Vacuum Tube 6267	V201 ----------	
E41	1-525-056	Vacuum Tube 30A5	V102,202,1 ----	
E42	8-719-112	Silicon Rectifier 1S125	D1 ----------	
E43	1-536-006	Terminal Strips 1-2P ----------		
		Carbon Resistor		
	1-204-904	330kΩ RD1/4L ±5%	R104,204 (noiseless) ----	
	1-204-901	100kΩ RD1/4L ±5%	R105,205 ----	
	1-204-909	15kΩ RD1/4L ±5%	R130,203 ----	
	1-203-104	150kΩ RD1/4L ±5%	R101,201 ----	
	1-203-118	1MΩ RD1/4L ±5%	R113,213 ----	
	1-203-149	470kΩ RD1/4L ±5%	R114,214 ----	
	1-203-109	220kΩ RD1/4L ±5%	R112,212 ----	
	1-203-123	120kΩ RD1/4L ±5%	R120,220 ----	
	1-203-097	56kΩ RD1/4L ±5%	R6 ----	
	1-203-095	47kΩ RD1/4L ±5%	R5,116,216 ----	
	1-203-091	36kΩ RD1/4L ±5%	R119,219 ----	
	1-203-089	33kΩ RD1/4L ±5%	R121,221 ----	
	1-203-130	18kΩ RD1/4L ±5%	R4,7 ----	
	1-203-069	10kΩ RD1/4L ±5%	R123,223,126,226 ----	
	1-203-065	5.6kΩ RD1/4L ±5%	R8,202 ----	
	1-203-050	2.7kΩ RD1/4L ±5%	R1,2,118,218 ----	
	1-203-037	1.2kΩ RD1/4L ±5%	R9 ----	
	1-203-018	220Ω RD1/4L ±5%	R106,206 ----	
	1-203-011	100Ω RD1/4L ±5%	R124,224,125,225 ----	
	1-203-127	68Ω RD1/4L ±5%	R110,210 ----	
	1-203-100	100kΩ RD1/4L ±5%	R129,229 ----	
	1-203-010	82Ω RD1/4L ±5%	R10 ----	
	1-203-032	1kΩ RD1/2L ±5%	R2 ----	
	1-203-899	150Ω RD1/2L ±5%	R115,215 ----	
	1-203-503	50Ω RD1L ±5%	R3 ----	
	1-203-178	39kΩ RD1/4L ±5%	R117,217 ----	
	1-203-061	3.9kΩ RD1/4L ±5%	R107,207 ----	
	1-203-151	1.8kΩ RD1/4L ±5%	R102,202 ----	

Ref. No.	Part No.	Description		Unit Price
		Wire Wound Resistor		
	1-207-038	8Ω 2W ±10%	R127,227 ----------	
	1-207-049	150Ω 4W ±10%	R1 ----------	
		Mylar Capacitor		
	1-105-044-11	0.05μF 50WV ±20%	C101,201,104,204 (MFL) --	
	1-105-041-11	0.01μF 50WV ±20%	C116,216 (MFL) ----------	
	1-105-089-12	0.002μF 50WV ±10%	C111,211 (MX) ----------	
	1-105-671-11	0.0068μF 50WV ±10%	C112,212,113,213 (MX) ---	
	1-105-068-12	0.03μF 50WV ±10%	C105,205 (MX) ----------	
	1-105-044-12	0.05μF 50WV ±20%	C108,208 (MX) ----------	
	1-105-671-12	0.0068μF 50WV ±10%	C119,219 (MFL) ----------	
		Oil Tubular Capacitor		
	1-115-058	0.01μF 600WV ±20%	C110,210 ----------	
	1-115-045	0.1μF 600WV ±20%	C2 ----------	
		Silvered Mica Capacitor		
	1-107-007	500pF 500WV ±10%	C120,220 ----------	
	1-109-064	500pF 1000WV ±20%	C117,217 ----------	
	1-109-057	750pF 1000WV ±10%	C6 ----------	
	1-109-062	0.003μF 1000WV ±10%	C7 ----------	
		Electrolytic Capacitor		
	1-121-192	10μF 15V	C102,202 ----------	
	1-121-139	50μF 15V	C103,203 ----------	
	1-119-104	50μF 3V	C106,206 ----------	
	1-119-056	100μF 10V	C109,209 ----------	
	1-119-038	25μF 50V	C5 ----------	
	1-119-063	1μF 150V	C107,207,9 ----------	
	1-119-105	3μF 150V	C4 ----------	
	1-121-002	100μF 150V	C3, (w/ lug) ----------	
	1-125-007	100μFx2 180V	C1-1, 2 (black) ---------	
		Polyethylene Capacitor		
	1-129-027	470pF 600WV ±10%	C114,214,115,215, 118,218 ----------	

Complete Spare Parts List for TC-200 (for USA)

(For the sets with Serial No. from 80,001 to 141,954)

June, 1969

Ref. No.	Part No.	Description	Unit Price
I.	Mechanical Parts		
A1	X-34130-20	Chassis Ass'y	
A2	X-34130-02	Mounting Plate Ass'y, rec./p.b. switch	
A6	X-34130-07	Speaker Grille Ass'y	
A7	X-34130-09	Control Knob Ass'y	
A8	X-34130-10-3	Speaker Back Cover (A) Ass'y	
A9	X-34130-10-4	Speaker Back Cover (B) Ass'y	
A10	X-34130-11	Record Push Button Ass'y	
A11	X-34130-12	Power Push Button Ass'y	
A12	X-34130-13	Lever Guide Ass'y	
A13	X-34130-14	Head Cover (A) Ass'y	
A14	X-34130-15	Control Panel Ass'y	
A15	X-34130-16	Equalizer Switch Ass'y	
A16	X-34130-17	Head Deck Ass'y	
A17	X-34130-18-3	Reel Panel Ass'y	
A19	X-00270-02	Pinch Lever Ass'y	
A20	X-00270-03	Capstan Idler Ass'y	
A21	X-00270-10	Idler Shaft (C) Ass'y	
A22	X-00270-13	Cam Ass'y, fast forward	
A23	X-00270-19	Idler Ass'y, take-up	
A24	X-00270-25	Idler Ass'y, rewind	
A25	X-37010-11	Capstan Shaft w/ Flywheel Ass'y	
A26	X-34020-15	Cam Ass'y, function selector	
A27	X-00370-04	Stepper Arm Ass'y	
A28	X-00370-05	Idler Arm Ass'y, rewind	
A29	X-34034-11	Idler Arm E Ass'y	
A30	X-34038-05	Pinch Roller Ass'y	
A31	X-00270-24	Reel Spindle Drum Ass'y	
A33	X-34090-12	Knob Ass'y, speed selector	
A34	X-34090-48	Supply Reel Table Ass'y	
A35	X-34090-49	Reel Table Ass'y, take-up	
A36	X-34090-21	Idler Plate Ass'y	
A38	X-37010-06	Tack Label Ass'y 60 Hz	
A39	X-34130-21	Brake Lever Ass'y	
A40	X-34133-02	Cabinet Ass'y, including	
A40-1	3-413-028	Retainer, power cord	
A40-2	3-413-029		
A40-3	3-413-050	Escutcheon, jack	

Ref. No.	Part No.	Description	Unit Price
A40-4	3-413-053	Sash (A)	
A40-5	3-413-056	Foot, mold	
A40-6	X-34130-19	Pocket Lid Ass'y	
A40-7	3-413-306	Label, location	
A40-8	3-413-060	Plate (B), lock	
A40-9	3-413-080	Lock, pocket lid retaining	
A40-10	3-413-081	Hinge, detachable	
A40-11	3-413-125	Net, ventilation	
A40-12	3-413-201	Washer, carrying handle	
A40-13	3-413-302	Shield Plate (B), amplifier	
A40-14	3-413-303	Cabinet	
A40-15	3-402-777	Cover, fan	
A40-16	3-409-052	Corner Plate (A), sash	
A40-17	3-409-053	Corner Plate (B), sash	
A40-18	3-418-204	Carrying Handle	
A40-19	3-418-163	Retainer, carrying handle	
A40-20	3-424-049	Foot, rubber	
A40-21	1-534 083	Power Cord, for USA	
A41	X-34133-03-6	Cabinet Lid Ass'y (left), including	
A41-1	3-413-054	Sash (B)	
A41-2	3-413-081	Hinge, detachable	
A41-3	3-413-304-05	Cabinet Lid (left)	
A41-4	3-409-052	Corner Plate (A), sash	
A41-5	3-409-053	Corner Plate (B), sash	
A41-6	3-412-612	Holder, cabinet lid lock	
A42	X-34133-03-7	Cabinet Lid Ass'y (right), including	
A42-1	3-413-054	Sash (B)	
A42-2	3-413-081	Hinge, detachable	
A42-3	3-413-304-06	Cabinet Lid (right)	
A42-4	3-409-052	Corner Plate (A), sash	
A42-5	3-409-053	Corner Plate (B), sash	
A42-6	3-412-612	Holder, cabinet lid lock	
1	3-413-002	Control Frame	
2	3-413-003	Mounting Plate (A), jack	
3	3-413-004	Mounting Plate (B), jack	
4	3-413-005	Mounting Bracket, mechanical	
5	3-413-008	Adjusting Plate, rec./p.b. head	
6	3-413-009	Lever (A), push button	
7	3-413-010	Lever (B), push button	
8	3-413-011	Lever (C), push button	
9	3-413-016	Holder, meter	
10	3-413-017	Record Indicating Plate Holder (A)	
11	3-413-018	Record Indicating Plate Holder (B)	
12	3-413-019	Spring, record indicating plate holder	

Ref. No.	Part No.	Description	Unit Price
13	3-413-020	Record Indicating Plate (red)	
14	3-413-026	Bracket, record indicating plate holder	
15	3-413-027	Holder, pilot lamp	
17	3-413-031	Mounting Bracket, output transformer	
18	3-413-032	Mounting Plate, equalizer switch	
19	3-413-033	Shield Plate, amplifier	
20	3-413-038	Head Cover (B)	
21	3-413-040	Felt Washer, control knob	
22	3-413-041	Ornamental Plate (A), jack	
24	3-413-132	Name Plate	
25	3-413-064	Shield Cover, transformer	
27	3-413-066	Holder, control panel	
29	3-413-075	Tape Guide (right)	
31	3-413-089	Lever, instant stop	
32	3-413-090	Shaft, counter pulley	
33	3-413-091	Spacer, counter pulley shaft	
34	3-413-092	Cover, instant stop lever	
35	3-413-093	Spring, instant stop lever cover	
36	3-413-095	Lever (C), selector	
37	3-413-096	Meter Cushion (A); larger	
38	3-413-097	Meter Cushion (B); smaller	
39	3-413-098	Carton Box	
40	3-413-100	Bag, polyethylene	
41	3-413-104	Protecting Cover, jack ornamental plate (A)	
42	3-413-105	Protecting Cover, jack ornamental plate (B)	
43	3-413-106	Cushion (B), carton box	
44	3-413-108	Helical Spring	
45	3-413-109	Insulating Rubber, printed circuit board	
46	3-413-110	Mounting Bracket, micro switch	
47	3-413-113	Spacer, rec./p.b. head	
48	3-413-114	Head Shield Plate (S)	
50	3-413-116	Holding Plate, AC socket	
51	3-413-117	Washer, erase head	
52	3-413-118	Shield Plate, jack	
53	3-413-119	Insulator Fiber, jack shield plate	
54	3-413-120	Spring, pinch lever	
55	3-413-121	Bag, polyethylene	
56	3-413-122	Helical Spring (IV)	
57	3-413-123	Push Rod (B)	
58	3-413-124	Rubber, vibration absorber	
59	3-413-126	Spring, instant stop lever	
60	3-413-127	Head Pad	
61	3-413-128	Tape Case Container	

Ref. No.	Part No.	Description	Unit Price
64	3-413-131	Spring, record button	
68	0-027-019	Support, idler guide	
69	0-027-020	Guide, idler	
70	0-027-022	Plate (B), idler	
73	3-419-093	Brake Block (S)	
74	0-027-034	Feed Spindle Deck	
75	0-027-035	Thin Washer 5ϕ	
76	0-027-036	Bearing Retainer	
77	0-027-038	Bearing Cover	
79	0-027-040	Thrust Bearer (Vulcanized Fiber)	
80	0-027-058	Adjustment Washer	
81	0-027-111	Pull Rod (A)	
82	0-027-113	Pull Rod	
83	0-027-119	Take-up Spindle	
84	0-027-120	Spindle, feed	
93	0-027-131	Shaft, speed selector	
94	0-027-134	Stepper Shaft	
101	0-027-155	Drive Shaft Bearing	
102	0-027-170	Set Screw, motor pulley	
103	0-027-181	Pinch Roller Spacer	
104	0-027-191	Helical Spring (A)	
105	0-027-193	Helical Spring (D)	
106	0-027-194	Helical Spring (E)	
107	0-027-197	Helical Spring (H)	
108	0-027-198	Spring, speed selector shaft	
109	0-027-200	Spring, brake block	
110	0-027-201	Reset Spring, fast forward	
111	0-027-207	Reset Spring	
115	0-027-216	Oil Ring 5ϕ	
116	0-027-220	Paper Washer 5ϕ	
117	0-027-221	Paper Washer 6ϕ	
121	0-027-246	Felt, oil retainer	
123	0-027-249	Brake Felt (upper side)	
124	0-027-250	Oil Ring	
131	0-027-479	Oil Ring, pinch roller	
132	0-027-116 0-027-483	Capstan 60 Hz	
134	0-027-018	Cam Stopper, fast forward	
135	0-027-230	Retainer, oil ring	
142	0-037-029	Motor Pulley	
143	0-037-040	Spring, idler	
144	0-037-220	Set Screw, capstan retainer	
145	0-037-240	Brake Spring	

Ref. No.	Part No.	Description	Unit Price
146	0-037-247	Pin, speed selector shaft	
147	0-037-248	Washer, speed selector shaft	
148	0-037-249	Split Nut	
149	0-041-005	Function Selector Cam Shaft	
150	0-041-018	Mounting Stud, head cover A	
151	0-041-029	Washer, reel panel	
152	0-041-032	Support, top panel	
153	0-041-041	Packing, top paper	
154	0-041-901	Cover, AC connector	
155	0-041-302	Cover, transformer	
156	0-045-040	Mounter, oscillation transformer	
157	0-049-186	Felt, feed reel spindle	
158	0-051-234	Set Screw, function selector knob	
159	0-051-340	Spring, fast forward	
160	0-051-363	Head Pad	
161	3-103-201	Tape Guide (B)	
163	3-103-527	Binder	
165	3-103-203	Spring, tape guide adjusting	
166	3-401-156	Spacer, miniature input jack	
167	3-401-179	Lug, wire retainer	
169	3-402-655	Hinge, tape pad	
170	3-402-682	Spacer, take-up shaft	
171	3-402-683	Spacer, supply shaft	
179	3-402-788	Tape Guard	
180	3-402-831	Fiber, insulating	
181	3-403-404	Stopper, instant stop lever	
182	3-403-405	Pull Rod, pinch lever	
183	3-403-406	Spring, idler pressing	
184	3-403-425	Bracket, pinch roller stopper	
189	3-406-769	Knob, instant stop lever	
191	3-407-030	Mounting Stud, head cover (B)	
192	3-407-040	Pulley, counter belt	
193	3-407-042	Counter Belt	
194	3-407-071	Washer 4ϕ	
195	3-409-115	Defeat Indicating Sheet	
197	3-409-109	Shaft, tape guide	
207	3-410-013	Knob, function selector	
208	3-410-014	Lever, fast forward	
209	3-405-698	Holding Screw, electrolytic capacitor	
210	3-412-119	Shield Case A	
211	3-412-078	Terminal Strips, head	
212	0-006-050	Set Screw, function selector shaft	
215	0-007-296	Equalizer Switch	

Ref. No.	Part No.	Description	Unit Price
216	0-007-313	Wire Retainer	
218	0-056-108	Screw, head adjustable	
219	0-056-312	Head Pad	
220	3-005-001	Spring, rec./p.b. head adjusting	
227	3-413-301	Ornamental Plate (C), output jack	
228	3-413-305	Chassis (B), power supply	
229	3-413-307	Plate, short stop	
230	3-413-308	Protecting Cover, jack ornamental plate (C)	
231	3-413-602	Felt, ornamental plate	
232	3-413-210	Holder, microphone	
233	0-027-501	Washer (B), special	
234	0-041-049	Shifter, head pad	
235	0-051-235	Retainer, wire	
236	3-405-407	Thrust Washer, capstan shaft	
237	3-409-124	Washer (D), nylon	
238	3-428-204	Felt, oil retainer	
239	3-409-087	Spacer, motor pulley	
240	3-701-030	Self Label, serial No.	
241	3-413-132	Name Plate	
224	Y-20071-01-1	Tape Index Counter 4 type	
	Accessories		
B3	7-491-001	Desiccant	
B4	0-037-241	Earphone Bag	
B5	1-506-105-01	Phono Plug (red)	
B6	1-506-105-02	Phono Plug (black)	
B7	1-506-012	Mini Plug	
B8	X-37010-08	Head Ribbon Ass'y	
B9	3-793-011	Check Sheet	
B10	3-796-111	Inspection Card	
B11	3-701-020	Check Sheet Bag	
B12	1-534-104	Connection Cord RK-58	
B13	3-793-030	SONY Booklet	
B15	3-790-219-20	Instruction Manual	
B16	8-811-970	Microphone F-97 (LM)	
B14	8-860-007	Reel R-7A	
B17	3-793-010	Tape Talk	
B18	3-793-044	Important, carton	
	7-621-255-22	Screw (+) RF 2x4	
	7-621-255-52	Screw (+) RF 2x8	
	7-621-256-12	Screw (+) RF 2x18	
	7-621-259-22	Screw (+) RF 2.6x4	

Ref. No.	Part No.	Description	Unit Price
	7-621-259-32	Screw (+) RF 2.6x5	
	7-621-259-52	Screw (+) RF 2.6x8	
	7-621-261-22	Screw (+) RF 3x4	
	7-621-261-25	Screw (+) RF 3x4	
	7-621-261-32	Screw (+) RF 3x5	
	7-621-261-42	Screw (+) RF 3x6	
	7-621-261-45	Screw (+) RF 3x6	
	7-621-261-52	Screw (+) RF 3x8	
	7-621-261-58	Screw (+) RF 3x8	
	7-621-261-55	Screw (+) RF 3x8	
	7-621-268-52	Screw (+) RF 4x8	
	7-621-261-82	Screw (+) RF 3x14	
	7-621-262-02	Screw (+) RF 3x16	
	7-621-263-12	Screw (+) RF 3x26	
	7-621-268-42	Screw (+) RF 4x6	
	7-621-268-55	Screw (+) RF 4x8	
	7-621-269-18	Screw (+) RF 4x18	
	7-621-309-45	Screw (-) F 2.6x6	
	7-621-555-32	Screw (+) K 2x5	
	7-621-555-42	Screw (+) K 2x6	
	7-621-555-52	Screw (+) K 2x8	
	7-621-461-42	Screw (+) T 3x6	
	7-621-461-59	Screw (+) T 3x8	
	7-621-461-46	Screw (+) T 3x6	
	7-621-770-72	Screw (+) B 2.6x8	
	7-621-770-25	Screw (+) B 3x6	
		Set Screw	
	7-621-713-46	3x6	
		Wood Screw	
	7-621-841-11	(+) R 2.1 x 13	
	7-621-843-22	(+) R 3.1 x 20	
		Washer	
	7-623-105-12	2ϕ	
	7-623-105-02	2ϕ (small)	
	7-623-107-12	2.6ϕ	
	7-623-107-02	2.6ϕ (small)	
	7-623-108-12	3ϕ	
	7-623-116-12	6ϕ	

Ref. No.	Part No.	Description	Unit Price
		Spring Washer	
	7-623-205-22	2ϕ ----------	
	7-623-207-22	2.6ϕ ----------	
	7-623-208-22	3ϕ ----------	
	7-623-210-22	4ϕ ----------	
		Nut	
	7-622-105-02	2ϕ ----------	
	7-622-108-02	3ϕ ----------	
	7-622-110-02	4ϕ ----------	
		Split Nut	
	7-626-208-31	2.5 x 18 ----------	
		Lug	
	7-623-508-01	3ϕ ----------	
		Earth Lug	
	7-623-510-01	4ϕ ----------	
		Nail	
	7-629-100-80	R 1ϕ x 6 ----------	
		Retaining Ring	
	7-624-106-01	E-3 ----------	
	7-624-109-01	E-5 ----------	

II. Electrical Parts

		Transistor 2SC318	Q101,201 ----------
		Diode 1T22G	D101,201 ----------
		Diode 1S125 (5GH)	D1 ----------
E1	1-427-085	Transformer, output	T101,201 ----------
E2	1-433-002	Transformer, osc.	T2 ----------
E4	1-431-040	Dummy Coil	L1 ----------

Ref. No.	Part No.	Description		Unit Price
E6	1-502-080	Speaker	SP101,201 ----------	
E7	1-507-053	Jack F, miniature	J101,201,103,203 ---	
E8	1-507-154	Jack, 2P pin	J102,202 ----------	
E9	1-534-017	Connection Cord, speaker	w/ plug P101,201 ---	
E11	1-513-164	Switch, slide (rec./p.b.	selector) S101,201 -	
E12	1-514-091	Switch, seesaw	S3,1,2 ----------	
E13	1-514-140	Power Switch, push button	S1 ----------	
E14	8-821-242	Rec./P.B. Head PP30-4202	RPH101,201 --------	
E15	8-826-629	Erase Head EF18-2902	EH101,201 ---------	
E16	8-832-624	Motor IC-624S2 ----------		
E17	1-532-007	Fuse ----------		
E18	1-533-006	Fuse Holder ----------		
E19	1-518-017	Pilot Lamp 0.15A	PL101,201 ----------	
E20	1-517-003	Socket, pilot lamp	PL101,201 ----------	
E21	1-509-016	AC Socket	CNJ1 ----------	
E22	1-524-005	VU Meter	ME101,201 ----------	
E24	1-526-043	Vacuum Tube Socket 7 Pin	----------	
E25	1-526-044	Vacuum Tube Socket 9 Pin	----------	
E26	1-526-005	Vacuum Tube Socket 7 Pin	----------	
E27	1-508-014	Connector Plug 12P	----------	
E28	1-509-061	Connector Socket 12P	----------	
E29	1-538-125-15	Printed Circuit Board	----------	
E31	1-536-008	Terminal Strips 2P-5	----------	
		Potentiometer		
E34	1-221-364	200kΩ (A)	R109,209 ----------	
E35	1-221-529	500kΩ	R108,208 ----------	
E36	1-221-365	200kΩ (B)	R128,228 ----------	
		Carbon Resistor, adjustable		
E37	1-221-359	10kΩ (B)	R122,222 ----------	
		MP Capacitor		
E39	1-117-008	0.5μF 250WV ±20%	C8 ----------	
E40	1-525-057)	Vacuum Tube 6267 (S)	V101 ----------	
	1-525-027)	Vacuum Tube 6267	V201 ----------	
E41	1-525-056	Vacuum Tube 30A5	V102,202,1 ---------	
E44	1-526-910	Clamp Pin, miniature tube	----------	
E45	1-526-911	Clamp Pin, ----------		
E46	1-441-192	Transformer, power	T1 ----------	
E47	1-514-058	Switch, micro	S2 ----------	

Ref. No.	Part No.	Description		Unit Price
		Carbon Resistor		
	1-204-904	330kΩ RD1/4L ±5%	R104,204 (noiseless)	----
	1-204-901	100kΩ RD1/4L ±5%	R105,205	----
	1-204-909	15kΩ RD1/4L ±5%	R103,203	----
	1-203-104	150kΩ RD1/4L ±5%	R101,201	----
	1-203-118	1MΩ RD1/4L ±5%	R113,213	----
	1-203-149	470kΩ RD1/4L ±5%	R114,214	----
	1-203-109	220kΩ RD1/4L ±5%	R112,212	----
	1-203-097	56kΩ RD1/4L ±5%	R6	----
	1-203-095	47kΩ RD1/4L ±5%	R5,116,216	----
	1-203-091	36kΩ RD1/4L ±5%	R119,219	----
	1-203-089	33kΩ RD1/4L ±5%	R121,221	----
	1-203-130	18kΩ RD1/4L ±5%	R4,7	----
	1-203-069	10kΩ RD1/4L ±5%	R123,223,126,226	----
	1-203-065	5.6kΩ RD1/4L ±5%	R8,202	----
	1-203-050	2.7kΩ RD1/4L ±5%	R1,2,118,218	----
	1-203-037	1.2kΩ RD1/4L ±5%	R9	----
	1-203-018	220Ω RD1/4L ±5%	R106,206	----
	1-203-011	100Ω RD1/4L ±5%	R124,224,125,225	----
	1-203-127	68Ω RD1/4L ±5%	R110,210	----
	1-203-010	82Ω RD1/4L ±5%	R10	----
	1-203-032	1kΩ RD1/2L ±5%	R2	----
	1-203-899	150Ω RD1/2L ±5%	R115,215	----
	1-203-503	50Ω RD1L ±5%	R3	----
	1-203-178	39kΩ RD1/4L ±5%	R117,217	----
	1-203-061	3.9kΩ RD1/4L ±5%	R107,207	----
		Wire Wound Resistor		
	1-207-038	8Ω 2W ±10%	R127,227	----------
	1-207-049	150Ω 4W ±10%	R1	----------
		Mylar Capacitor		
	1-105-044-11	0.05μF 50WV ±20%	C101,201,104,204 (MFL)	--
	1-105-041-11	0.01μF 50WV ±20%	C116,216 (MFL)	----------
	1-105-089-12	0.002μF 50WV ±10%	C111,211 (MX)	----------
	1-105-671-11	0.0068μF 50WV ±10%	C112,212,113,213 (MX)	---
	1-105-068-12	0.03μF 50WV ±10%	C105,205 (MX)	----------
	1-105-044-12	0.05μF 50WV ±20%	C108,208 (MX)	----------
	1-105-671-12	0.0068μF 50WV ±10%	C119,219 (MFL)	----------

Ref. No.	Part No.	Description	Unit Price
		Oil Tubular Capacitor	
	1-115-058	0.01μF 600WV ±20% C110,210 ----------	
	1-115-046	0.05μF 400WV ±20% C2 ----------	
		Silvered Mica Capacitor	
	1-107-007	500pF 500WV ±10% C120,220 ----------	
	1-109-064	500pF 1000WV ±20% C117,217 ----------	
	1-109-057	750pF 1000WV ±10% C6 ----------	
	1-109-062	0.003μF 1000WV ±10% C7 ----------	
	1-107-004	1000pF 500WV ±10% C121,221 ----------	
		Electrolytic Capacitor	
	1-121-192	10μF 15V C102,202 ----------	
	1-121-139	50μF 15V C103,203 ----------	
E48	1-125-007	100μFx2 180V C1-1, 2 (block) ---------	
		Polyethylene Capacitor	
	1-129-027	470pF 400WV ±10% C114,214,115,215,118,218-	
	1-129-107	100pF 50WV ±10% C121,221 ----------	

SONY CORPORATION

Complete Spare Parts List for TC-200 (for USA)

(For the sets with Serial No. 141,955 and later) June, 1969

Ref. No.	Part No.	Description	Unit Price
I.	Mechanical Parts		
A18	X-34130-19	Lid Ass'y, accessory pocket	
A6	X-34130-07	Grille Ass'y, speaker	
A7	X-34130-09	Knob Ass'y, control	
A8	X-34130-10-3	Plate (left) Ass'y, cabinet lid; sack side	
A9	X-34130-10-4	Plate (right) Ass'y, cabinet lid; sack side	
A10	X-34130-11	Button Ass'y, record	
A11	X-34130-12	Button Ass'y, power ON/OFF	
A12	X-34130-13	Bracket Ass'y, record lever guide	
A14	X-34130-15	Control Panel Ass'y	
A16	X-34130-17	Head Deck Ass'y	
A17	X-34130-18-3	Reel Panel Ass'y	
A19	X-00270-02	Pinch Lever Ass'y	
A20	X-00270-03	Idler Ass'y, capstan	
A21	X-00270-10	Shaft Ass'y, rewind idler	
A22	X-00270-13	Cam Ass'y, fast forward	
A23	X-00270-19	Idler Ass'y, take-up	
A24	X-00270-25	Idler Ass'y, rewind	
A25	X-37010-11	Capstan Shaft Ass'y	
A26	X-34020-15	Cam Ass'y, function selector	
A27	X-00370-04	Arm Ass'y, stepper	
A28	X-00370-05	Arm Ass'y, capstan idler	
A29	X-34034-11	Arm Ass'y, rewind idler	
A30	X-34038-05	Pinch Roller Ass'y, stroboscope	
A31	X-00270-24	Drum Ass'y, take-up reel spindle	
A33	X-34090-12-9	Knob Ass'y, speed selector	
A34	X-34090-48	Table Ass'y, feed reel	
A35	X-34090-49	Table Ass'y, take-up	
A36	X-34090-21	Plate Ass'y, take-up idler	
A37	X-34090-29-8	Table Ass'y, upper part	
A39	X-34130-21	Brake Lever Ass'y	
A41	X-34133-03-6	Cabinet Lid Ass'y, left; including	
A41-1	3-413-054	Sash (B)	
A41-2	3-413-081	Hinge, detachable	
A41-3	3-413-304-05	Cabinet Lid, left	
A41-4	3-409-052	Plate (A), sash	
A41-5	3-409-053	Plate (B), sash	
A41-6	3-412-612	Bracket, lid lock	

Ref. No.	Part No.	Description	Unit Price
A42	X-34133-03-7	Cabinet Lid Ass'y, right; including	
A42-1	3-413-054	Sash (B)	
A42-2	3-413-081	Hinge, detachable	
A42-3	3-413-304-06	Cabinet Lid, right	
A42-4	3-409-052	Plate (A), sash	
A42-5	3-409-053	Plate (B), sash	
A42-6	3-412-612	Bracket, lid lock	
A49	X-34135-02	Cabinet Ass'y, including	
A49-1	3-413-501	Cabinet	
A49-2	3-413-050	Escutcheon, jack	
A49-3	3-413-053	Sash (A)	
A49-4	3-413-056	Foot, mold	
A18	X-34130-19	Lid Ass'y, pocket	
A49-5	3-413-060	Plate (B), lock	
A49-6	3-413-080	Lock, cabinet lid	
A49-7	3-413-081	Hinge, detachable	
A49-8	3-413-516	Insulator	
A49-9	3-413-201	Washer, carrying handle	
A49-10	3-413-302	Plate (B), amp. shield	
A49-11	3-402-777	Cover, fan	
A49-12	3-409-052	Plate (A), sash corner	
A49-13	3-409-053	Plate (B), sash corner	
A49-14	3-418-204	Handle, carrying	
A49-15	3-418-163	Bracket carrying handle	
A49-16	3-424-049	Foot, rubber	
A50	X-34135-03	Base Plate (chassis) Ass'y	
A51	X-34135-04	Bracket Ass'y, rec./p.b. selector switch	
A52	X-34135-05	Head Cover (A) Ass'y	
A53	X-37010-06-2	Tack Label 60 Hz Ass'y	
2	3-413-003	Bracket, output jack	
4	3-413-005	Bracket, base plate	
5	3-413-008	Plate, rec./p.b. head	
6	3-413-009	Lever, record button (A)	
7	3-413-010	Lever, record button (B)	
9	3-413-016	Bracket, VU meter	
10	3-413-017	Lever, record indicating plate (A)	
11	3-413-018	Lever, record indicating plate (B)	
12	3-413-019	Spring, record indicating plate lever	
13	3-413-020	Plate, record indicate; red	
14	3-413-026	Bracket, record indicating plate	
15	3-413-027	Bracket, pilot lamp	
20	3-413-038	Head Cover (B)	

Ref. No.	Part No.	Description	Unit Price
21	3-413-040	Spacer, control knob; felt	
22	3-413-041	Plate, decoration; input jack side	
29	3-413-075	Tape Guide (right)	
31	3-413-089	Lever, instant stop	
32	3-413-090	Shaft, counter pulley	
33	3-413-091	Spacer, counter pulley shaft	
34	3-413-092	Spacer, instant stop lever	
35	3-413-093	Spring, instant stop lever	
36	3-413-095	Lever, selector	
37	3-413-096	Cushion, VU meter; center	
38	3-413-097	Cushion, VU meter; left & right side	
40	3-413-100	Bag, polyethylene	
41	3-413-104	Cover, input jack plate; polyethylene	
42	3-413-105	Cover, output jack plate; polyethylene	
44	3-413-108	Spring, record button lever	
45	3-413-109	Plate, circuit board insulator; rubber	
46	3-413-110	Bracket, micro switch holder	
47	3-413-113	Spacer, rec./p.b. head	
48	3-413-114	Plate, head shield	
51	3-413-117	Spacer, erase head	
52	3-413-118	Plate, AC socket shield	
55	3-413-121	Bag, polyethylene	
56	3-413-122	Spring, record button lever	
57	3-413-123	Lid, rewind idler	
58	3-413-124	Disc, vibration absorber; cabinet cover side-	
59	3-413-126	Spring, instant stop lever	
60	3-413-127	Pad, erase head	
64	3-413-131	Spring, record button	
65	3-413-134	Tape Shifter	
66	3-413-135	Bracket, control panel retainer	
68	0-027-019	Bracket, rewind idler guide	
69	0-027-020	Bracket, take-up idler plate guide	
70	0-027-022	Plate, take-up reel table	
73	3-419-093	Brake Block	
74	0-027-034	Plate, feed reel table	
76	0-027-036	Plate, capstan shaft holder	
77	0-027-038	Cap, capstan shaft	
79	0-027-040	Disc, capstan shaft; fiber	
80	0-027-058	Washer, capstan shaft	
81	0-027-111	Rod, capstan idler	
82	0-027-113	Pull Rod, take-up idler	
83	0-027-119	Spindle, take-up reel	
84	0-027-120	Spindle, feed	

Ref. No.	Part No.	Description	Unit Price
93	0-027-131	Shaft, speed selector	
94	0-027-134	Shaft, stepper	
101	0-027-155	Bracket, capstan shaft retainer	
102	0-027-170	Screw, motor pulley	
103	0-027-181	Spacer, pinch roller	
104	0-027-191	Spring, take-up idler arm	
105	0-027-193	Spring, pinch lever	
106	0-027-194	Spring, rewind idler	
107	0-027-197	Spring, capstan idler	
108	0-027-198	Spring, speed selector	
109	0-027-200	Spring, brake block	
110	0-027-201	Spring, fast forward reset	
111	0-027-207	Spring, function selector cam	
115	0-027-216	Washer, take-up idler	
116	0-027-220	Washer 5ϕ, take-up idler	
117	0-027-221	Washer 6ϕ, rewind & capstan idler	
121	0-027-246	Plate, oil absorber; felt	
131	0-027-479	Oil Absorber, pinch roller	
132	0-027-116 0-027-483	Capstan 50 Hz	
134	0-027-018	Plate, fast forward cam stopper	
135	0-027-230	Retainer, oil ring	
142	0-037-029-40	Motor Pulley	
144	0-037-220-02	Screw, capstan	
145	0-037-240	Spring, take-up brake	
146	0-037-247	Pin, speed selector	
147	0-037-248	Washer, speed selector	
148	0-037-249	Split Nut	
149	0-041-005	Shaft, function selector cam	
150	0-041-018	Shaft, head cover	
151	0-041-029	Spacer, reel panel	
152	0-041-032	Plate, control panel support	
153	0-041-041	Washer, control panel supporting plate	
157	0-049-186	Disc, feed reel friction	
158	0-051-234	Screw, function selector knob	
160	0-051-363	Pad, head shield plate	
161	3-103-201	Tape Guide (left)	
165	3-103-203	Spring, tape guide	
166	3-401-156	Spacer, miniature jack	
170	3-402-682	Spacer, take-up reel spindle	
171	3-402-683	Spacer, feed reel spindle	
179	3-402-788	Tape Guard	
181	3-403-404	Bracket, instant stop lever	

Ref. No.	Part No.	Description	Unit Price
182	3-403-405	Lever, pinch lever control	
183	3-403-406	Spring, rewind idler pressure	
184	3-403-425	Plate, pinch roller	
189	3-406-769	Knob, instant stop	
190	3-701-030	Label, serial No.	
191	3-407-030	Shaft, head cover	
192	3-407-040	Pulley, tape counter belt	
193	3-407-042	Belt, tape counter	
194	3-407-071	Washer, 4ϕ	
197	3-409-109	Tape Guide	
202	3-409-087	Spacer, tape counter pulley shaft	
207	3-410-013	Knob, function selector	
208	3-410-014	Lever, fast forward	
210	3-412-119	Case, rec./p.b. head shield	
211	3-412-078	Board, head terminal	
212	0-006-050	Screw, function selector cam	
216	0-007-313	Wire Retainer	
218	0-056-108	Screw, rec./p.b. head	
219	0-056-312	Pad, head shield plate	
220	3-005-001-70	Spring, rec./p.b. head	
224	Y-20071-01	Tape Index Counter	
227	3-413-301	Plate, jack	
230	3-413-308	Cover, jack; protector	
231	3-413-602	Felt, ornamental plate	
233	0-027-501-03	Washer, cabinet	
235	0-051-235	Lug, wire retainer	
236	3-405-407	Thrust Washer, drive wheel	
237	3-409-124	Washer, nylon	
278	3-413-505	Bracket, control	
279	3-413-506	Bracket, circuit board	
280	3-413-507	Chassis, power supply	
281	3-413-508	Plate, control panel support	
282	3-413-509	Plate, motor shield	
283	3-413-510	Bracket, monitor on/off switch	
284	3-413-511	Cushion, capacitor	
285	3-413-512	Bracket, input jack	
286	3-413-513	Label, specification	
287	3-413-514	Bracket, AC power cord	
288	3-103-139	Belt, hum-proof; capstan motor	
289	3-410-032	Staple, AC power cord; nylon	
290	3-410-044	Cap, metalized paper capacitor; nylon	
291	3-419-345	Plate, power transistor heat sink	
292	3-427-291	Label, caution	

Ref. No.	Part No.	Description	Unit Price
293	3-428-110	Bracket, speed equalizer switch	
294	3-428-109	Lever, speed equalizer switch	
295	3-421-055	Spacer (A)	
296	3-421-068	Spring A, idler	
297	3-412-145	Spring, idler	
298	3-413-120	Spring, leaf	
299	3-413-119	Insulating Fiber, jack shield plate	
300	0-027-249	Brake Felt	
301	0-027-250	Oil Ring	
302	0-037-040	Spring, idler	
303	3-103-140	Washer, hum-proof belt	
304	3-402-655	Hinge, pad	
305	3-419-438	Cover, fuse terminal	
	Accessories		
B3	7-491-001	Desiccant	
B4	0-037-241	Bag, earphone	
B5	1-506-105-01	Pin Plug; red	
B6	1-506-105-02	Pin Plug; black	
B7	1-506-012	Plug, miniature	
B8	X-37010-08	Head Ribbon Ass'y	
B10	3-796-111	Inspection Card	
B11	3-701-020	Bag, check sheet SS	
B12	1-534-104	Connection Cord RK-58	
B13	3-793-030	Booklet, SONY tape	
B14	8-860-007	Reel R-7A, without box	
B17	8-811-258	Microphone F-25MTL	
B22	3-790-219-21	Instruction Manual	
B23	3-793-010	Tape Talk	
B24	3-793-044	Important, carton	
B25	3-701 031	Envelope, IBM card	
B26	3-701-034	Quality Control Card	
B27	3-701-035	Warranty Card	
	Carton		
C1	X-34135-06	Carton Ass'y	

Ref. No.	Part No.	Description	Unit Price (per 100)
Screw, Washer & Nut			
		Screw	
	7-621-255-12	(+) P 2x3	
	7-621-255-22	(+) P 2x4	
	7-621-255-25	(+) P 2x4	
	7-621-255-55	(+) P 2x8	
	7-621-259-22	(+) P 2.6x4	
	7-621-259-35	(+) P 2.6x5	
	7-621-259-45	(+) P 2.6x6	
	7-621-259-52	(+) P 2.6x8	
	7-621-261-25	(+) P 3x4	
	7-621-261-35	(+) P 3x5	
	7-621-261-45	(+) P 3x6	
	7-621-261-52	(+) P 3x8	
	7-621-261-55	(+) P 3x8	
	7-621-261-58	(+) P 3x8	
	7-621-261-72	(+) P 3x12	
	7-621-261-75	(+) P 3x12	
	7-621-261-85	(+) P 3x14	
	7-621-262-08	(+) P 3x16	
	7-621-262-19	(+) P 4x18	
	7-621-268-55	(+) P 4x8	
	7-621-555-32	(+) K 2x5	
	7-621-555-42	(+) K 2x6	
	7-621-770-64	(+) B 2.6x8	
	7-621-770-24	(+) B 3x6	
	7-621-770-25	(+) B 3x6	
	7-621-461-45	(+) T 3x6	
	7-621-461-59	(+) T 3x8	
	7-621-461-46	(+) T 3x6	
	7-621-771-16	(+) B 3x14	
	7-621-461-22	(+) T 3x4	
		Wood Screw	
	7-621-841-12	(+) R 2.1x13	
	7-621-843-47	(+) R 3.1x16	
		Set Screw	
	7-621-713-40	3 x 6	

Ref. No.	Part No.	Description	Unit Price
		Split Pin	
	7-626-208-31	2.5 x 18 ----------	
		Nail	
	7-629-100-16	R 1 x 6 ----------	
		Washer	
	7-623-105-12	2ϕ ----------	
	7-623-107-02	2.6ϕ ----------	
	7-623-107-17	2.6ϕ ----------	
	7-623-108-12	3ϕ ----------	
	7-623-108-20	3ϕ ----------	
	7-623-113-18	6ϕ ----------	
	7-623-117-12	6ϕ ----------	
		Spring Washer	
	7-623-205-27	2ϕ ----------	
	7-623-207-22	3ϕ ----------	
	7-623-208-27	3ϕ ----------	
	7-623-210-28	4ϕ ----------	
		Speed Nut	
	7-622-408-01	3ϕ ----------	
		Retaining Ring	
	7-624-106-01	E-3 ----------	
	7-624-109-01	E-5 ----------	
	7-621-112-01	E-8 ----------	
		Washer, external tooth	
	7-623-408-01	3ϕ ----------	
		Lug	
	7-623-508-01	3ϕ ----------	
	7-623-510-01	4ϕ ----------	

Ref. No.	Part No.	Description	Unit Price
		Nut	
	7-622-105-02	2ϕ ----------	
	7-622-108-02	3ϕ ----------	
	7-622-110-02	4ϕ ----------	
		Lock Nut	
	7-622-208-02	3ϕ ----------	

II. Electrical Parts

Circuit Board, pre-amp. section

		Transistor 2SC631 Q101,102,201,202 ---	
		Diode 1T22A D101,201 ----------	
E11	1-513-164	Switch, rec./p.b. SW101,201 ----------	
E48	1-538-493-11	Printed Circuit Board, pre-amp. ----------	
		Carbon Resistor	
	1-242-687	3.9kΩ RD1/4UR ±5% R104,204 (low noise) ----	
	1-242-703	18kΩ RD1/4UR ±5% R105,205 ----	
	1-242-705	22kΩ RD1/4UR ±5% R106,206 ----	
	1-242-645	68Ω RD1/4UR.ELR1/4 ±10% R103,203 ----	
	1-242-661	330Ω RD1/4UR.ELR1/4 ±10% R122,222 ----	
	1-242-667	560Ω RD1/4UR.ELR1/4 ±10% R109,209,137,237 ---	
	1-242-683	27kΩ RD1/4UR.ELR1/4 ±10% R112,212 ----	
	1-242-699	12kΩ RD1/4UR.ELR1/4 ±10% R111,211 ----	
	1-242-705	22kΩ RD1/4UR.ELR1/4 ±10% R110,210 ----	
	1-242-719	82kΩ RD1/4UR.ELR1/4 ±10% R108,208 ----	
	1-242-675	1.2kΩ RD1/4UR.ELR1/4 ±10% R141,241 ----	
		Carbon Resistor, adjustable	
E49	1-221-322	15kΩ R136,236 ----------	
		Carbon Resistor	
	1-242-661	330Ω RD1/4UR.ELR1/4 ±10% R142,242 ----------	

Ref. No.	Part No.	Description		Unit Price
		Mylar Capacitor		
	1-106-058-12) 1-105-661-12)	0.001μF 50WV ±10% MFL	C103,203	----------
	1-106-082-12) 1-105-673-12)	0.01μF 50WV ±10% MFL	C120,220	----------
	1-106-094-12) 1-105-679-12)	0.033μF 50WV ±10% MFL	C108,208	----------
	1-105-681-12) 1-106-098-12)	0.047μF 50WV ±10% MFL	C126,226	----------
		Polyethylene Capacitor		
	1-129-147	0.0047μF 50WV ±20%	C101,201	----------
		Electrolytic Capacitor		
	1-121-355) 1-121-414) 1-121-339)	100μF 10WV $\pm^{150\%}_{10}$	C105,205	----------
	1-121-347) 1-121-397) 1-121-471)	10μF 16WV $\pm^{150\%}_{10}$	C110,210	----------
	1-121-284) 1-121-401) 1-121-482)	33μF 6.3WV $\pm^{150\%}_{10}$	C107,207,104,204	---
	1-121-402) 1-121-349) 1-121-485)	30μF 16WV $\pm^{150\%}_{10}$	C102,202	----------
		Silvered Mica Capacitor		
	1-107-125	56pF 50WV ±10%	C127,227	----------
	Circuit Board, power amp. section			
		Transistor 2SC631	Q103,203,104,204	---
		Transistor 2SC634	Q105,205,106,206	---
E50	1-423-114	Transformer, driver	T101,201	----------
E51	1-538-494-12	Printed Circuit Board, power amp.		----------
E52	1-409-100	Coil, trap	L101,201	----------

Ref. No.	Part No.	Description		Unit Price
		Carbon Resistor		
	1-242-633	22Ω RD1/4UR.ELR1/4 ±10%	R125,225 ----------	
	1-242-657	220Ω RD1/4UR.ELR1/4 ±10%	R132,232,133,233 ---	
	1-242-659	270Ω RD1/4UR.ELR1/4 ±10%	R138,238 ----------	
	1-242-663	390Ω RD1/4UR.ELR1/4 ±10%	R127,227,118,218 ---	
	1-242-671	820Ω RD1/4UR.ELR1/4 ±10%	R124,224 ----------	
	1-242-679	1.8kΩ RD1/4UR.ELR1/4 ±10%	R128,228 ----------	
	1-242-681	2.2kΩ RD1/4UR.ELR1/4 ±10%	R126,226,130,230, 119,219 ----------	
	1-242-691	5.6kΩ RD1/4UR.ELR1/4 ±10%	R123,223 ----------	
	1-242-695	8.2kΩ RD1/4UR.ELR1/4 ±10%	R117,217 ----------	
	1-242-697	10kΩ RD1/4UR.ELR1/4 ±10%	R116,216 ----------	
	1-242-713	47kΩ RD1/4UR.ELR1/4 ±10%	R121,221 ----------	
	1-242-715	56kΩ RD1/4UR.ELR1/4 ±10%	R115,215 ----------	
	1-242-725	150kΩ RD1/4UR.ELR1/4 ±10%	R114 214,120,220 --	
	1-248-656) 1-242-656)	200Ω RD1/4UR.ELR1/4 ±5%	R129,229,131,231 ---	
	1-204-528	1Ω RD1/2SP ±5%	R134,234,135,235 ---	
	1-242-685	3.3kΩ RD1/4UR.ELR1/4 ±10%	R143,243 ----------	
		Polyethylene Capacitor		
	1-129-147	0.0047μF 50WV ±10%	C114,214 ----------	
		Mylar Capacitor		
	1-106-058-12) 1-105-661-12)	0.001μF 50WV ±10% MFL	C116,216,128,228 ---	
	1-106-082-12) 1-105-673-12)	0.01μF 50WV ±10% MFL	C122,222 ----------	
		Electrolytic Capacitor		
	1-121-286) 1-121-404) 1-121-373)	33μF 25WV $\pm^{150\%}_{10}$	C112,212 ----------	
	1-121-293) 1-121-416) 1-121-377)	100μF 25WV $\pm^{150\%}_{10}$	C118,218,121,221 ---	
	1-119-149	470μF 25WV $\pm^{150\%}_{10}$	C123,223 ----------	
	1-121-289) 1-121-410) 1-121-375)	47μF 25WV $\pm^{150\%}_{10}$	C119,219 ----------	

Ref. No.	Part No.	Description		Unit Price
	1-121-347 1-121-397 1-121-471	10μF 16WV $\pm^{150\%}_{10\%}$	C111,211,115,215 ---	
	1-121-349 1-121-402 1-121-485	33μF 25WV $\pm^{150\%}_{10\%}$	C113,213 ----------	
	1-121-352 1-121-408 1-121-338	47μF 10WV $\pm^{150\%}_{10\%}$	C117,217 ----------	
	Circuit Board, bias osc. section			
		Transistor 2SB383	Q1,2 ----------	
		Diode 5G-D	D1,2 ----------	
E53	1-433-102	Transformer, bias oscillator	T2,3 ----------	
E54	1-538-495-11	Printed Circuit Board, bias osc.	----------	
		Carbon Resistor		
	1-242-693	6.8kΩ RD1/4UR.ELR1/4 ±10%	R140,240 ----------	
	1-242-707	27kΩ RD1/4UR.ELR1/4 ±10%	R3,4 ----------	
	1-204-528	1Ω RD1/2SP ±5%	R1 ----------	
	1-204-529	270Ω RD1SP ±5%	R2 ----------	
		Mylar Capacitor		
	1-106-066-12 1-105-665-12	0.0022μF 50WV ±10% MFL	C125,225 ----------	
	1-106-074-12 1-105-669-12	0.0047μF 50WV ±10% MFL	C5,6,124,224 ------	
		Polyethylene Capacitor		
	1-129-386	0.01μF 600WV ±5%	C4 ----------	
		Electrolytic Capacitor		
	1-121-344 1-121-393 1-121-456	3.3μF 25WV	C3 ----------	
	1-121-388	1000μF 35WV $\pm^{150\%}_{10\%}$	C2 ----------	

Ref. No.	Part No.	Description	Unit Price
21	3-413-040	Spacer, control knob; felt	
22	3-413-041	Plate, decoration; input jack side	
29	3-413-075	Tape Guide (right)	
31	3-413-089	Lever, instant stop	
32	3-413-090	Shaft, counter pulley	
33	3-413-091	Spacer, counter pulley shaft	
34	3-413-092	Spacer, instant stop lever	
35	3-413-093	Spring, instant stop lever	
36	3-413-095	Lever, selector	
37	3-413-096	Cushion, VU meter; center	
38	3-413-097	Cushion, VU meter; left & right side	
40	3-413-100	Bag, polyethylene	
41	3-413-104	Cover, input jack plate; polyethylene	
42	3-413-105	Cover, output jack plate; polyethylene	
44	3-413-108	Spring, record button lever	
45	3-413-109	Plate, circuit board insulator; rubber	
46	3-413-110	Bracket, micro switch holder	
47	3-413-113	Spacer, rec./p.b. head	
48	3-413-114	Plate, head shield	
51	3-413-117	Spacer, erase head	
52	3-413-118	Plate, AC socket shield	
55	3-413-121	Bag, polyethylene	
56	3-413-122	Spring, record button lever	
57	3-413-123	Lid, rewind idler	
58	3-413-124	Disc, vibration absorber; cabinet cover side	
59	3-413-126	Spring, instant stop lever	
60	3-413-127	Pad, erase head	
64	3-413-131	Spring, record button	
65	3-413-134	Tape Shifter	
66	3-413-135	Bracket, control panel retainer	
68	0-027-019	Bracket, rewind idler guide	
69	0-027-020	Bracket, take-up idler plate guide	
70	0-027-022	Plate, take-up reel table	
73	3-419-093	Brake Block	
74	0-027-034	Plate, feed reel table	
76	0-027-036	Plate, capstan shaft holder	
77	0-027-038	Cap, capstan shaft	
79	0-027-040	Disc, capstan shaft; fiber	
80	0-027-058	Washer, capstan shaft	
81	0-027-111	Rod, capstan idler	
82	0-027-113	Pull Rod, take-up idler	
83	0-027-119	Spindle, take-up reel	
84	0-027-120	Spindle, feed	

Ref. No.	Part No.	Description	Unit Price
93	0-027-131	Shaft, speed selector	
94	0-027-134	Shaft, stepper	
101	0-027-155	Bracket, capstan shaft retainer	
102	0-027-170	Screw, motor pulley	
103	0-027-181	Spacer, pinch roller	
104	0-027-191	Spring, take-up idler arm	
105	0-027-193	Spring, pinch lever	
106	0-027-194	Spring, rewind idler	
107	0-027-197	Spring, capstan idler	
108	0-027-198	Spring, speed selector	
109	0-027-200	Spring, brake block	
110	0-027-201	Spring, fast forward reset	
111	0-027-207	Spring, function selector cam	
115	0-027-216	Washer, take-up idler	
116	0-027-220	Washer 5ø, take-up idler	
117	0-027-221	Washer 6ø, rewind & capstan idler	
121	0-027-246	Plate, oil absorber; felt	
131	0-027-479	Oil Absorber, pinch roller	
132	0-027-116 0-027-483	Capstan 50 Hz	
134	0-027-018	Plate, fast forward cam stopper	
135	0-027-230	Retainer, oil ring	
142	0-037-029-40	Motor Pulley	
144	0-037-220-02	Screw, capstan	
145	0-037-240	Spring, take-up brake	
146	0-037-247	Pin, speed selector	
147	0-037-248	Washer, speed selector	
148	0-037-249	Split Nut	
149	0-041-005	Shaft, function selector cam	
150	0-041-018	Shaft, head cover	
151	0-041-029	Spacer, reel panel	
152	0-041-032	Plate, control panel support	
153	0-041-041	Washer, control panel supporting plate	
157	0-049-186	Disc, feed reel friction	
158	0-051-234	Screw, function selector knob	
160	0-051-363	Pad, head shield plate	
161	3-103-201	Tape Guide (left)	
165	3-103-203	Spring, tape guide	
166	3-401-156	Spacer, miniature jack	
170	3-402-682	Spacer, take-up reel spindle	
171	3-402-683	Spacer, feed reel spindle	
179	3-402-788	Tape Guard	
181	3-403-404	Bracket, instant stop lever	

Ref. No.	Part No.	Description	Unit Price
		Carbon Resistor	
	1-242-633	22Ω RD1/4UR.ELR1/4 ±10% R125,225 ----------	
	1-242-657	220Ω RD1/4UR.ELR1/4 ±10% R132,232,133,233 ---	
	1-242-659	270Ω RD1/4UR.ELR1/4 ±10% R138,238 ----------	
	1-242-663	390Ω RD1/4UR.ELR1/4 ±10% R127,227,118,218 ---	
	1-242-671	820Ω RD1/4UR.ELR1/4 ±10% R124,224 ----------	
	1-242-679	1.8kΩ RD1/4UR.ELR1/4 ±10% R128,228 ----------	
	1-242-681	2.2kΩ RD1/4UR.ELR1/4 ±10% R126,226,130,230, 119,219 ----------	
	1-242-691	5.6kΩ RD1/4UR.ELR1/4 ±10% R123,223 ----------	
	1-242-695	8.2kΩ RD1/4UR.ELR1/4 ±10% R117,217 ----------	
	1-242-697	10kΩ RD1/4UR.ELR1/4 ±10% R116,216 ----------	
	1-242-713	47kΩ RD1/4UR.ELR1/4 ±10% R121,221 ----------	
	1-242-715	56kΩ RD1/4UR.ELR1/4 ±10% R115,215 ----------	
	1-242-725	150kΩ RD1/4UR.ELR1/4 ±10% R114 214,120,220 --	
	1-248-656) 1-242-656)	200Ω RD1/4UR.ELR1/4 ±5% R129,229,131,231 ---	
	1-204-528	1Ω RD1/2SP ±5% R134,234,135,235 ---	
	1-242-685	3.3kΩ RD1/4UR.ELR1/4 ±10% R143,243 ----------	
		Polyethylene Capacitor	
	1-129-147	0.0047μF 50WV ±10% C114,214 ----------	
		Mylar Capacitor	
	1-106-058-12) 1-105-661-12)	0.001μF 50WV ±10% MFL C116,216,128,228 ---	
	1-106-082-12) 1-105-673-12)	0.01μF 50WV ±10% MFL C122,222 ----------	
		Electrolytic Capacitor	
	1-121-286) 1-121-404) 1-121-373)	33μF 25WV $\pm^{150}_{10}$% C112,212 ----------	
	1-121-293) 1-121-416) 1-121-377)	100μF 25WV $\pm^{150}_{10}$% C118,218,121,221 ---	
	1-119-149	470μF 25WV $\pm^{150}_{10}$% C123,223 ----------	
	1-121-289) 1-121-410) 1-121-375)	47μF 25WV $\pm^{150}_{10}$% C119,219 ----------	

Ref. No.	Part No.	Description		Unit Price
	1-121-347 1-121-397 1-121-471	10μF 16WV $\pm^{150\%}_{10}$	C111,211,115,215 ---	
	1-121-349 1-121-402 1-121-485	33μF 25WV $\pm^{150\%}_{10}$	C113,213 ----------	
	1-121-352 1-121-408 1-121-338	47μF 10WV $\pm^{150\%}_{10}$	C117,217 ----------	
	Circuit Board, bias osc. section			
		Transistor 2SB383	Q1,2 ----------	
		Diode 5G-D	D1,2 ----------	
E53	1-433-102	Transformer, bias oscillator	T2,3 ----------	
E54	1-538-495-11	Printed Circuit Board, bias osc.	----------	
		Carbon Resistor		
	1-242-693	6.8kΩ RD1/4UR.ELR1/4 ±10%	R140,240 ----------	
	1-242-707	27kΩ RD1/4UR.ELR1/4 ±10%	R3,4 ----------	
	1-204-528	1Ω RD1/2SP ±5%	R1 ----------	
	1-204-529	270Ω RD1SP ±5%	R2 ----------	
		Mylar Capacitor		
	1-106-066-12 1-105-665-12	0.0022μF 50WV ±10% MFL	C125,225 ----------	
	1-106-074-12 1-105-669-12	0.0047μF 50WV ±10% MFL	C5,6,124,224 ------	
		Polyethylene Capacitor		
	1-129-386	0.01μF 600WV ±5%	C4 ----------	
		Electrolytic Capacitor		
	1-121-344 1-121-393 1-121-456	3.3μF 25WV	C3 ----------	
	1-121-388	1000μF 35WV $\pm^{150\%}_{10}$	C2 ----------	

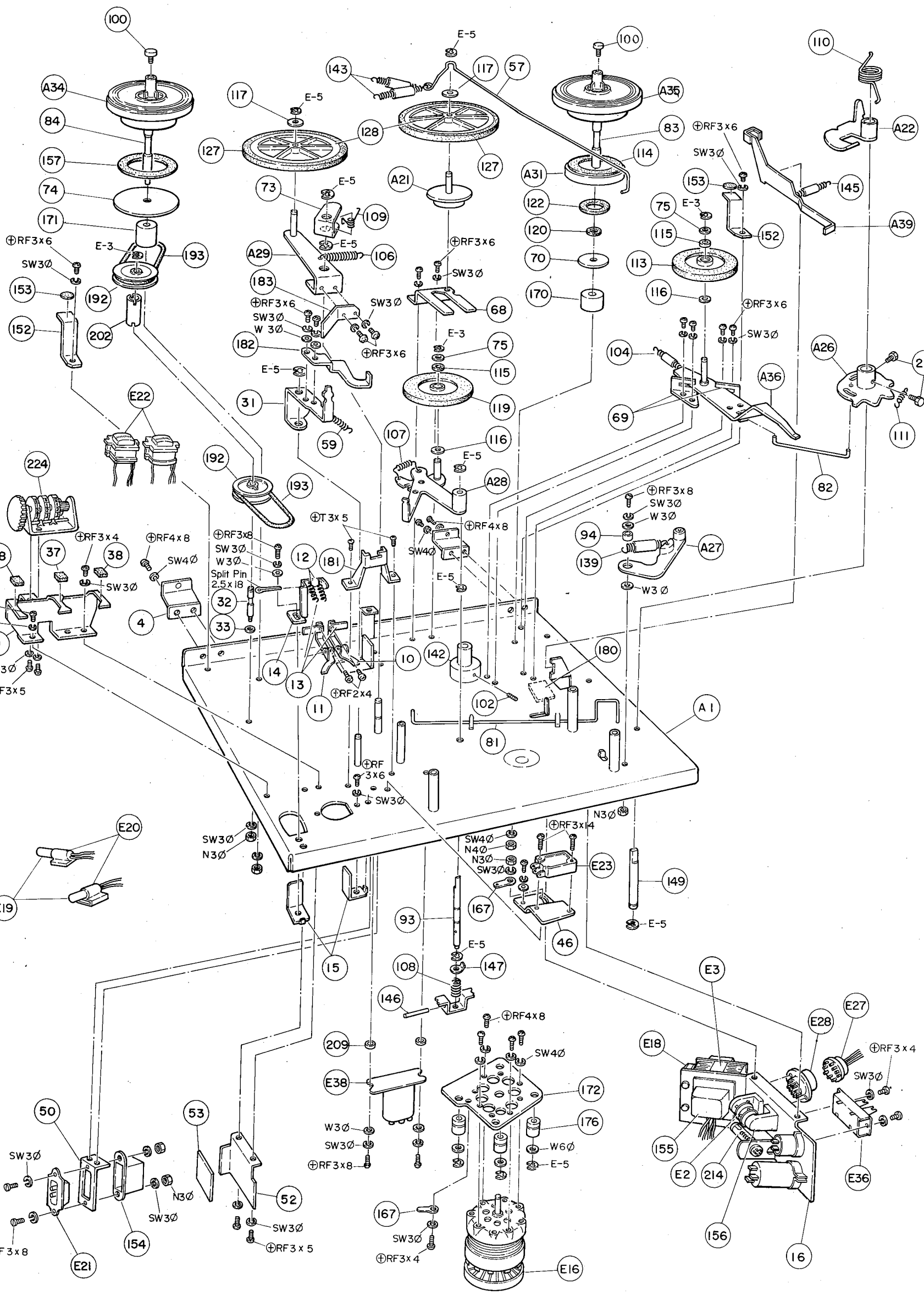
Ref. No.	Part No.	Description		Unit Price
E14	8-821-242	Head, rec./p.b. PP30-4202LN R.P.H.		
E15	8-826-629	Head, erase EF18-2902H E.H.		
		Transistor 2SD28	Q107,207,108,208	
E16	8-832-624	Motor IC-624S2		
E55	1-441-276	Transformer, power	T1	
E6	1-502-080	Speaker	SP101,201	
E47	1-514-058	Switch, micro	SW2	
E56	1-536-182	Terminal Strips	2L2	
		Potentiometer		
E57	1-221-793	10kΩ	R113,213	
E58	1-221-792	10kΩ	R107,207	
		Metalized Paper Capacitor		
E38	1-117-034	1.5μF AC 250V $\pm\frac{10}{5}$%	C1	
E59	1-508-040	Connector, 8P; male		
E60	1-508-059	Connector, 8P; female		
		Encapsulated Component C-R		
E61	1-105-534	0.1μF + 120Ω (500WV)	CP	
E62	1-507-028	Jack, microphone; mini	J102,202	
E63	1-507-053	Jack, line out & speaker; mini	J103,203	
E64	1-507-142	Jack, aux input; phono	J101,201	
E65	1-513-081	Switch, speed equalizer; push button	S103,203	
E66	1-514-091	Switch, line/speaker; seesaw	S102,202	
E67	1-514-140-23S	Switch, power ON/OFF; push button	S1	
E68	1-532 163	Fuse, 0.8A		
E69	1-534-557-21	Cord, AC power		
E70	1-534-413-11	Cord, speaker connection		
E71	1-431-038	Coil, dummy	L1	
		Carbon Resistor		
	1-244-667	560Ω RD1/4SR.R1/4 ±10%	R101,201	
	1-244-697	560Ω RD1/4SR.R1/4 ±10%	R139,239	
	1-244-733	330kΩ RD1/4SR.R1/4 ±10%	R102,202	
		Polyethylene Capacitor		
	1-129-123	470p 50WV ±10%	C109,209	

Ref. No.	Part No.	Description		Unit Price
E18	1-533-006-12	Fuse Holder	F ----------	
E20	1-517-003	Socket, pilot lamp	PL101,201 ----------	
E72	1-518-052	Pilot Lamp	PL101,201 ----------	
E22	1-524-005	Level Meter	ME101,201 ----------	

EXPLODED VIEW

Up to Serial No. 74,999

Chassis – top view –



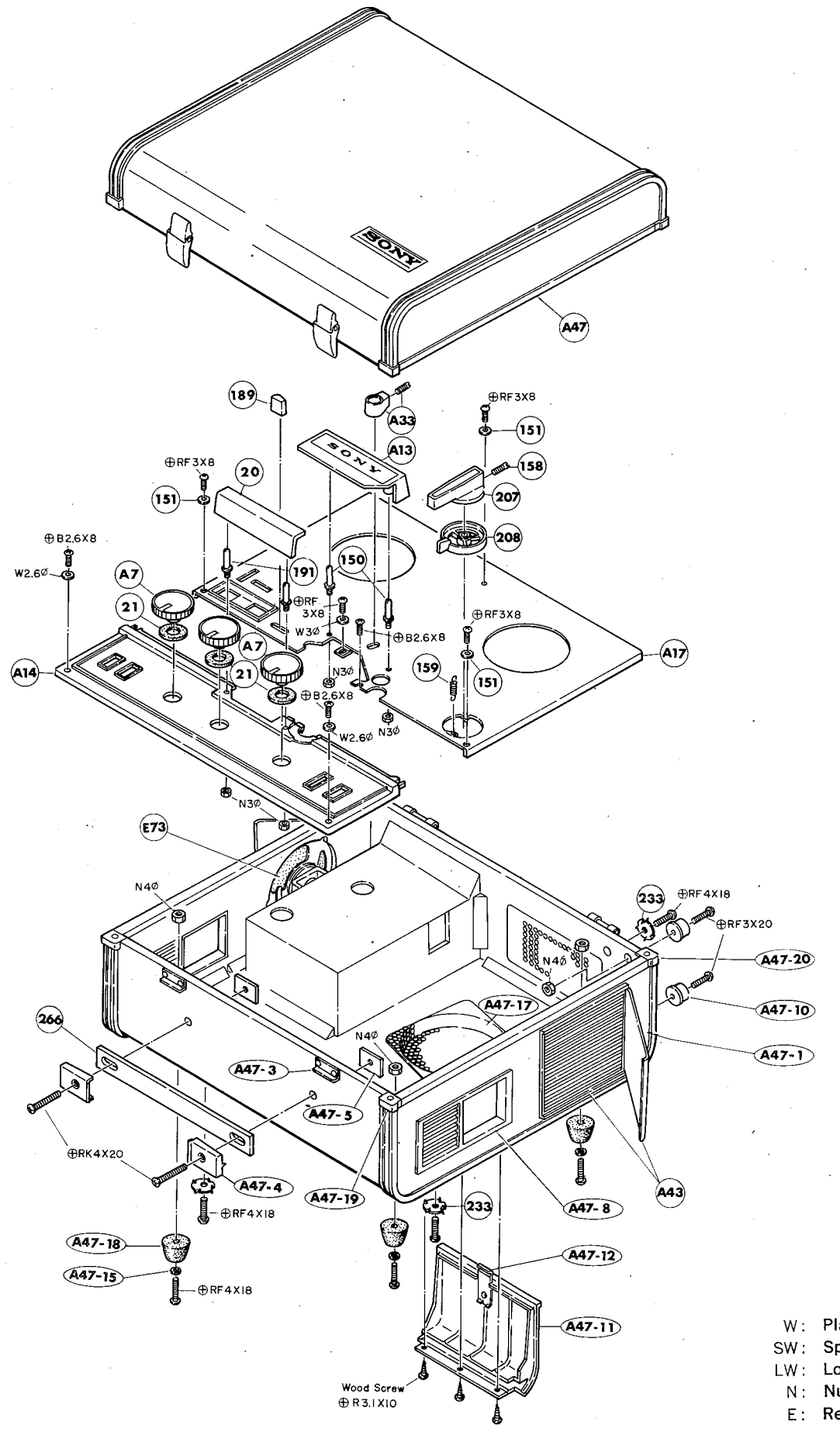
W: Plain Washer
SW: Spring Washer
LW: Lock Washer
N: Nut
E: Retaining Ring

■ Number encircled shows Reference No. which is listed in the Complete Spare Parts List attached hereto.

EXPLODED VIEW

Serial No. from 75,000 to 80,000

Cabinet —top view—



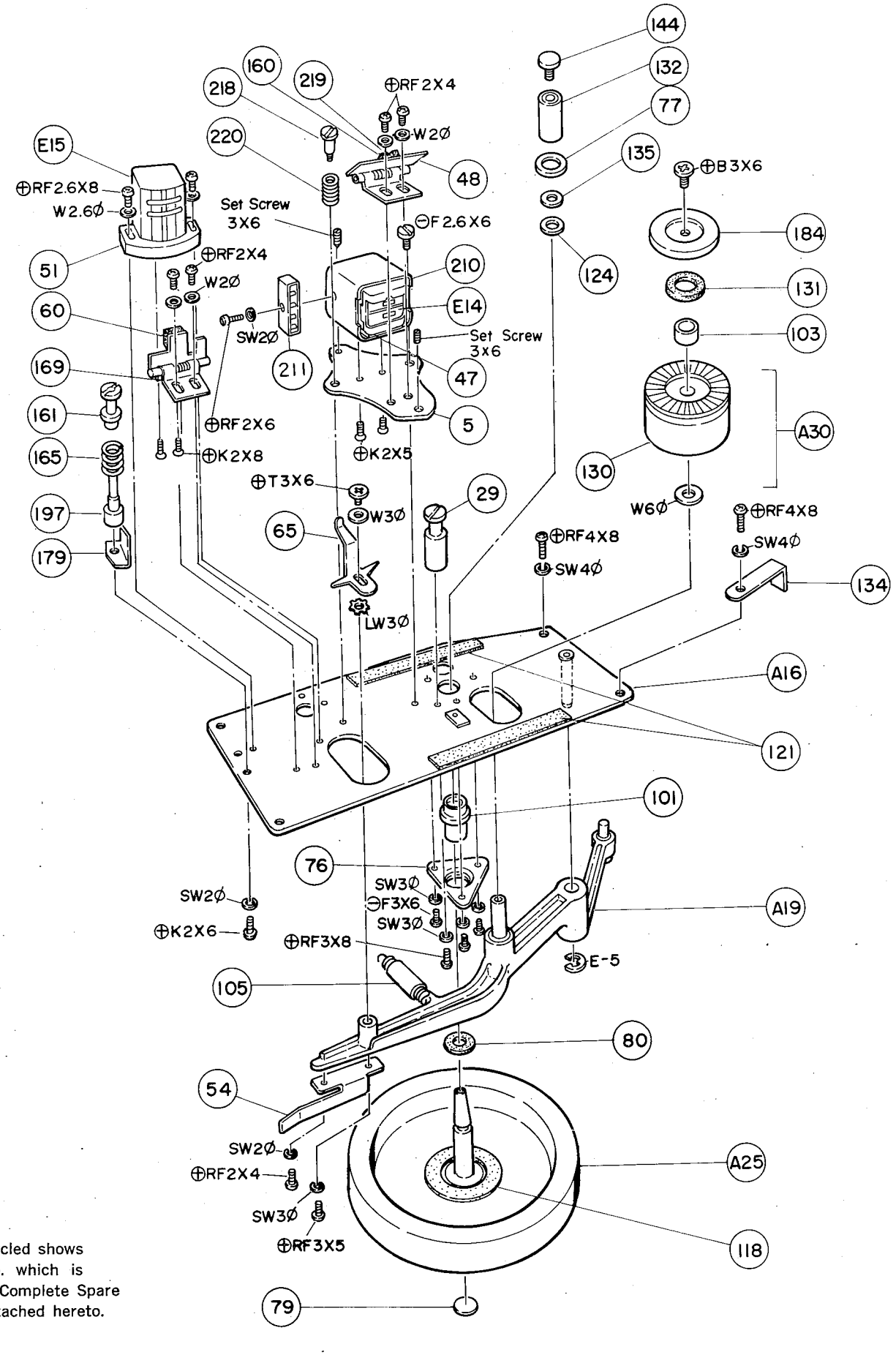
W: Plain Washer
SW: Spring Washer
LW: Lock Washer
N: Nut
E: Retaining Ring

■ Number encircled shows Reference No. which is listed in the Complete Spare Parts List attached hereto.

EXPLODED VIEW

Serial No. from 75,000 to 80,000

Head Deck —top view—



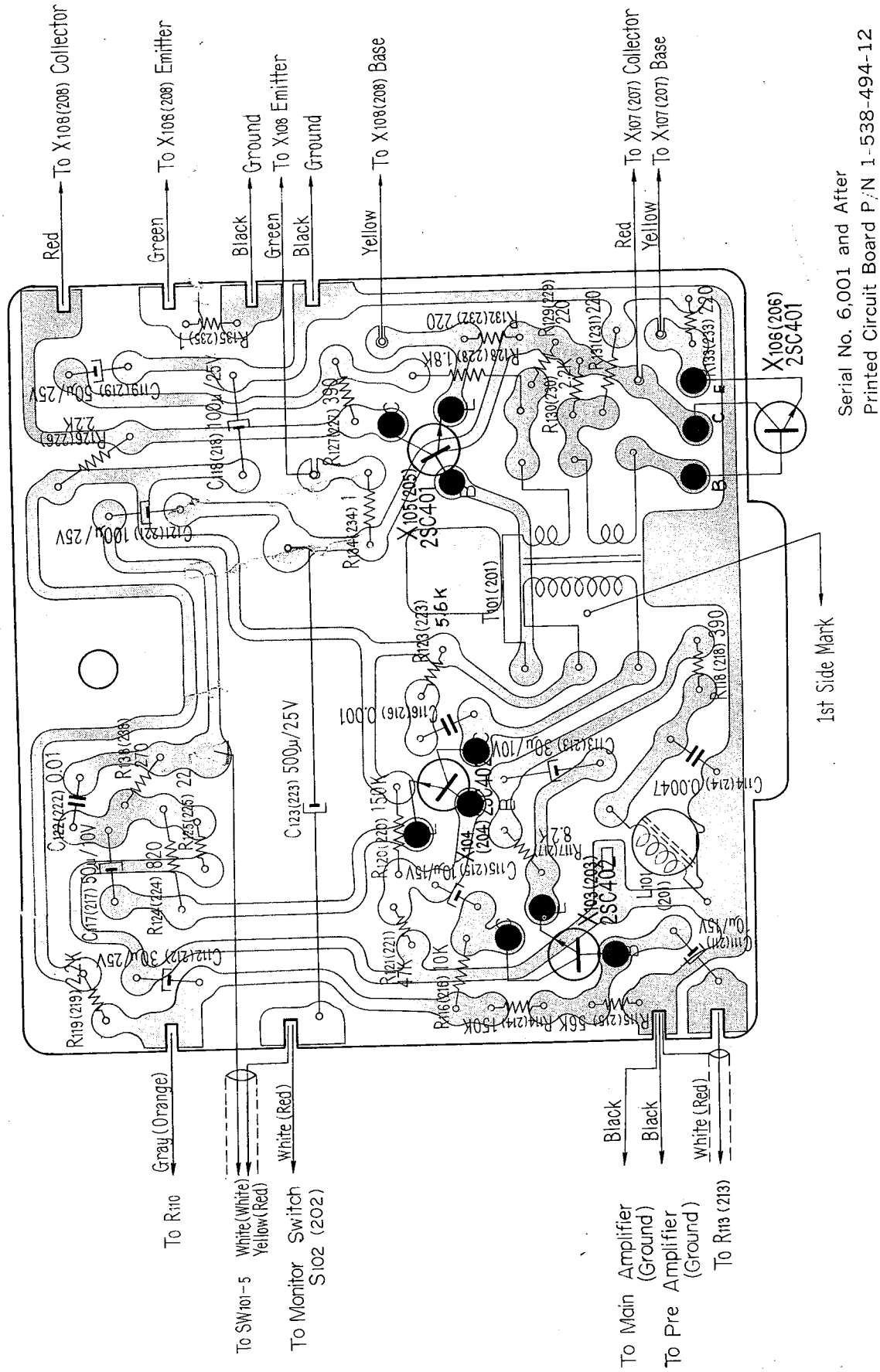
SONY®

First Revision

Mounting Diagram

Main Amplifier Section

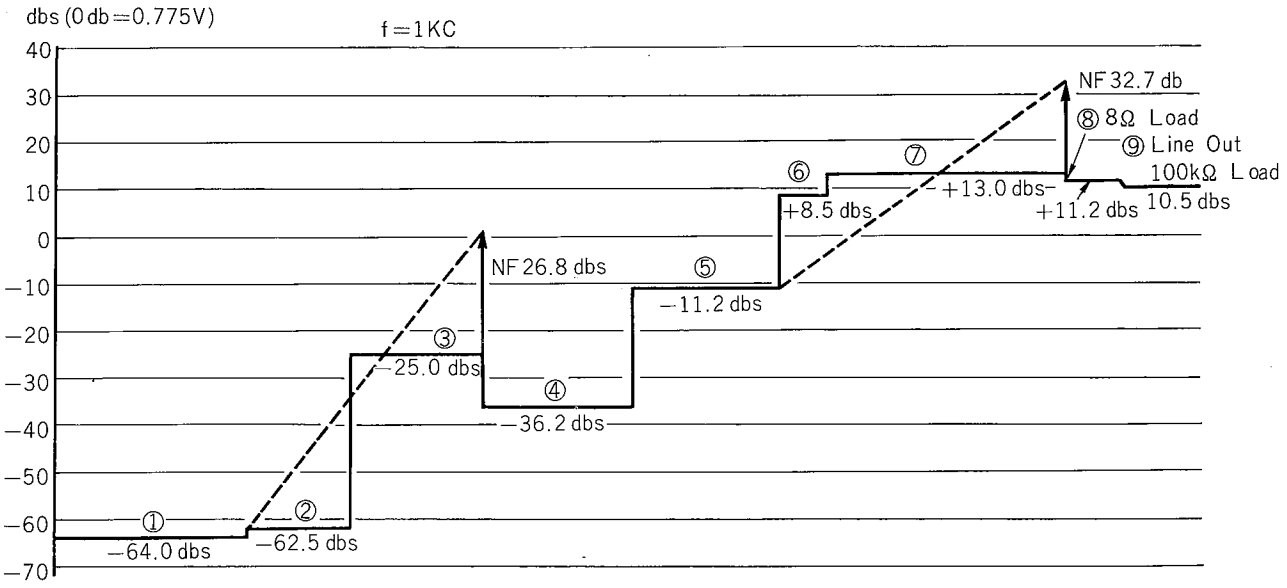
—Printed Side—

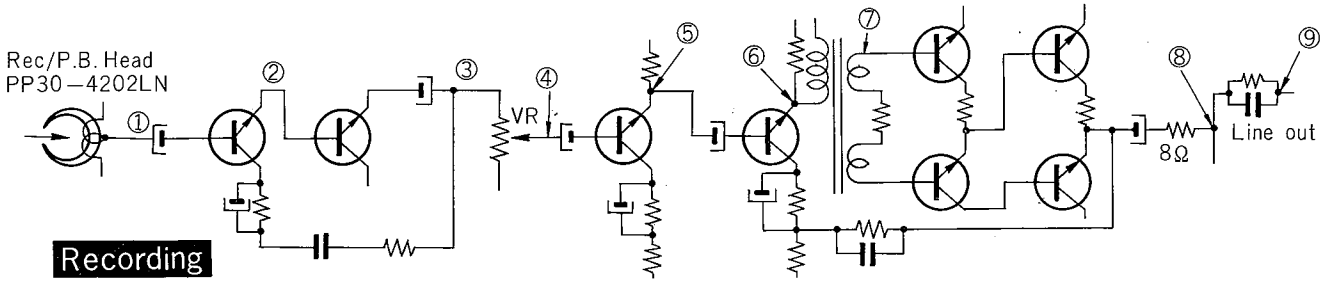


SONY®

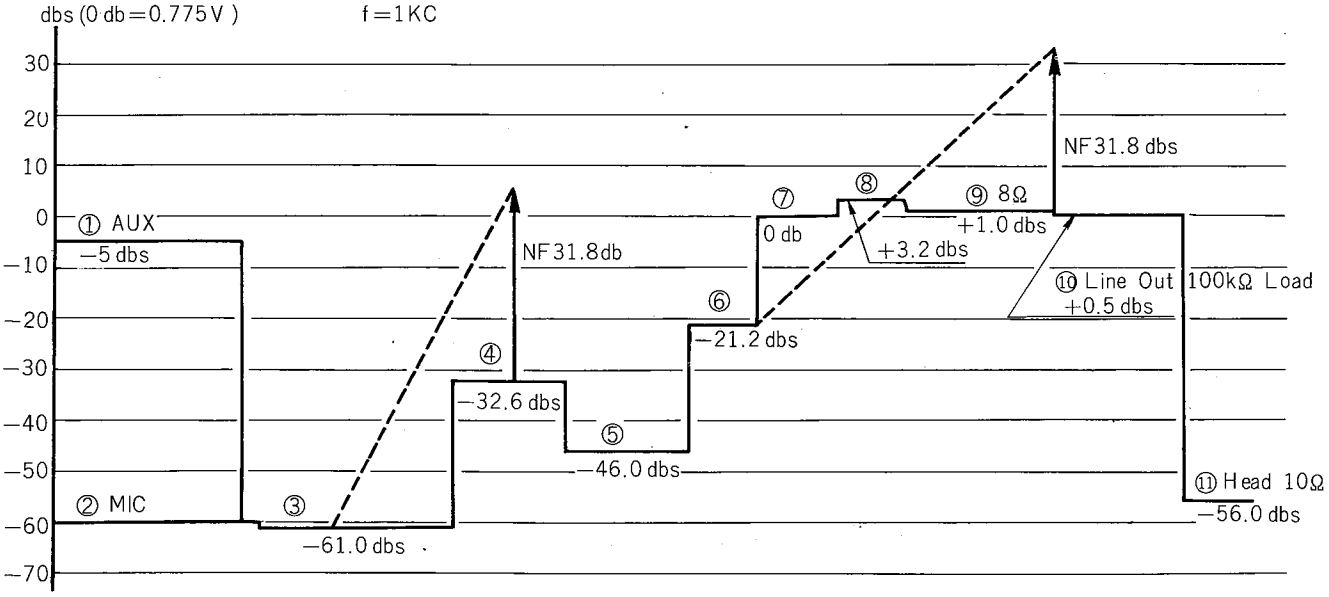
Level Diagram

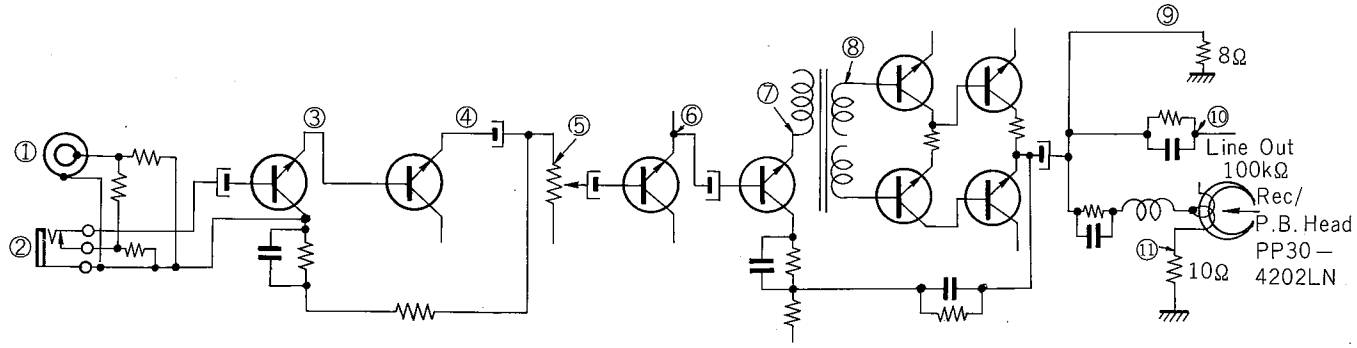
Playback





Recording





TC-200

Specifications

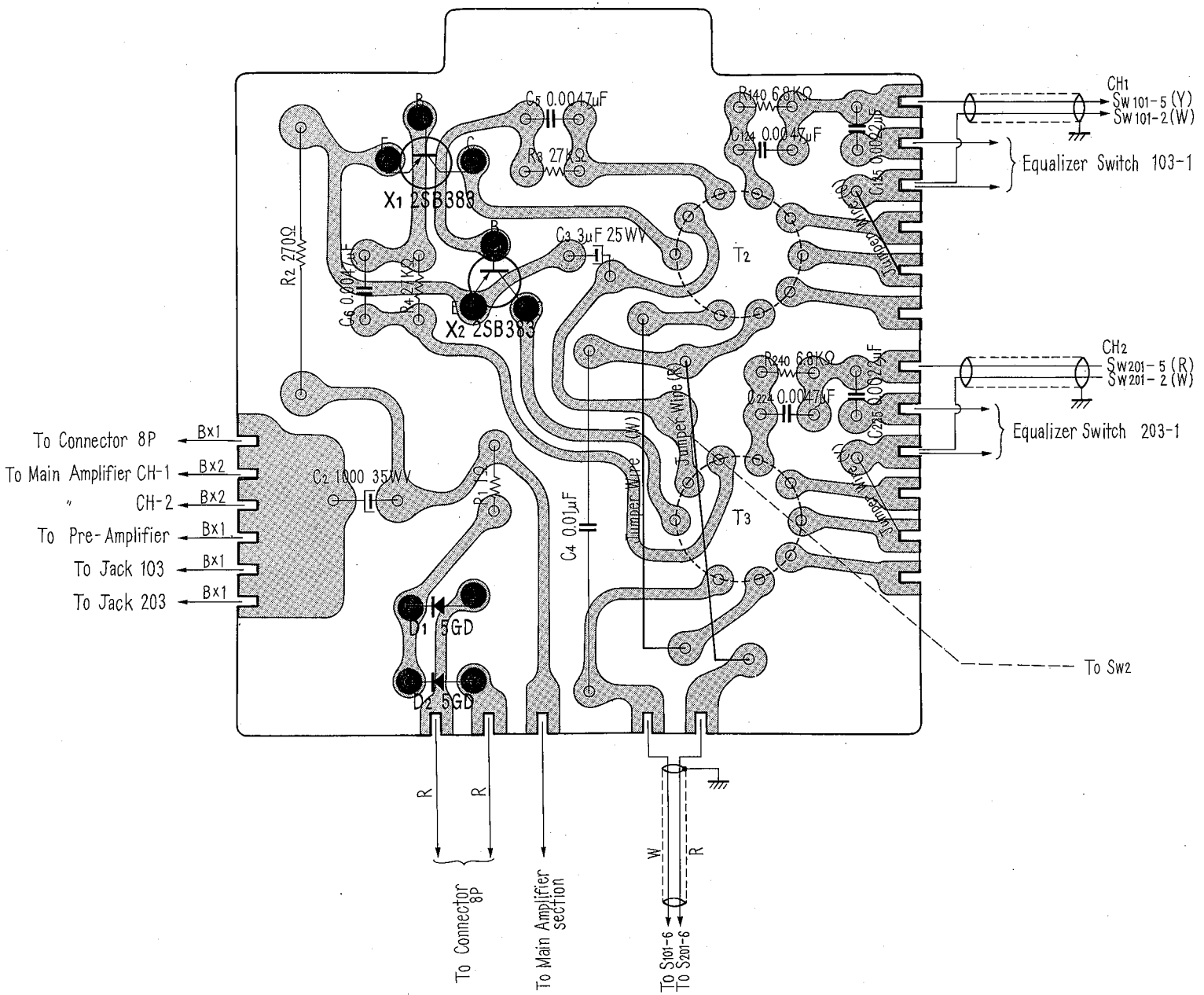
Power requirement:	AC 117V, 50/60 cps 50W
Reel size:	7″ (18 cm) or smaller
Tape speed:	7½ ips, 3¾ ips and 1⅞ ips (19, 9.5 and 4.75 cm/s) instantaneous switching with automatic equalization change
Recording system:	4 track stereophonic or monophonic
Frequency response:	30~17,000 cps at 7½ ips (19 cm/s) ±3 db 70~13,000 cps at 7½ ips (19 cm/s) 30~13,000 cps at 3¾ ips (9.5 cm/s)
Flutter and wow:	Less than 0.2% at 7½ ips (19 cm/s) Less than 0.3% at 3¾ ips (9.5 cm/s)
Bias frequency:	Approx. 55 Kc
Signal-to-noise ratio:	(per channel) 46 db
Level indication:	Two level meters
Power output:	per 4W
Inputs:	MIC input jack (low impedance) (×2) Auxiliary input jack (high impedance) (×2)
Outputs:	Speaker output jack (8Ω) line out Jack (high impedance) (×2)
Transistors:	2SC401 (×4), 2SC402 (×8), 2SD28 (×4), 2SB381 (×2)
Diodes:	5G-D (×2) 1T22 (×2)
Weight:	25 lbs (11.5 kgs)
Dimensions:	15 (W)×8 5/16 (H)×15 5/16″ (D) (380×227×404 mm)
Accessories:	SONY dynamic microphone (F-97, LM type) Empty reel 7″ Connection cord RK-58 Head creaning ribbon

f-O-Sept-1966

Printed in Japan

Power Supply and OSC

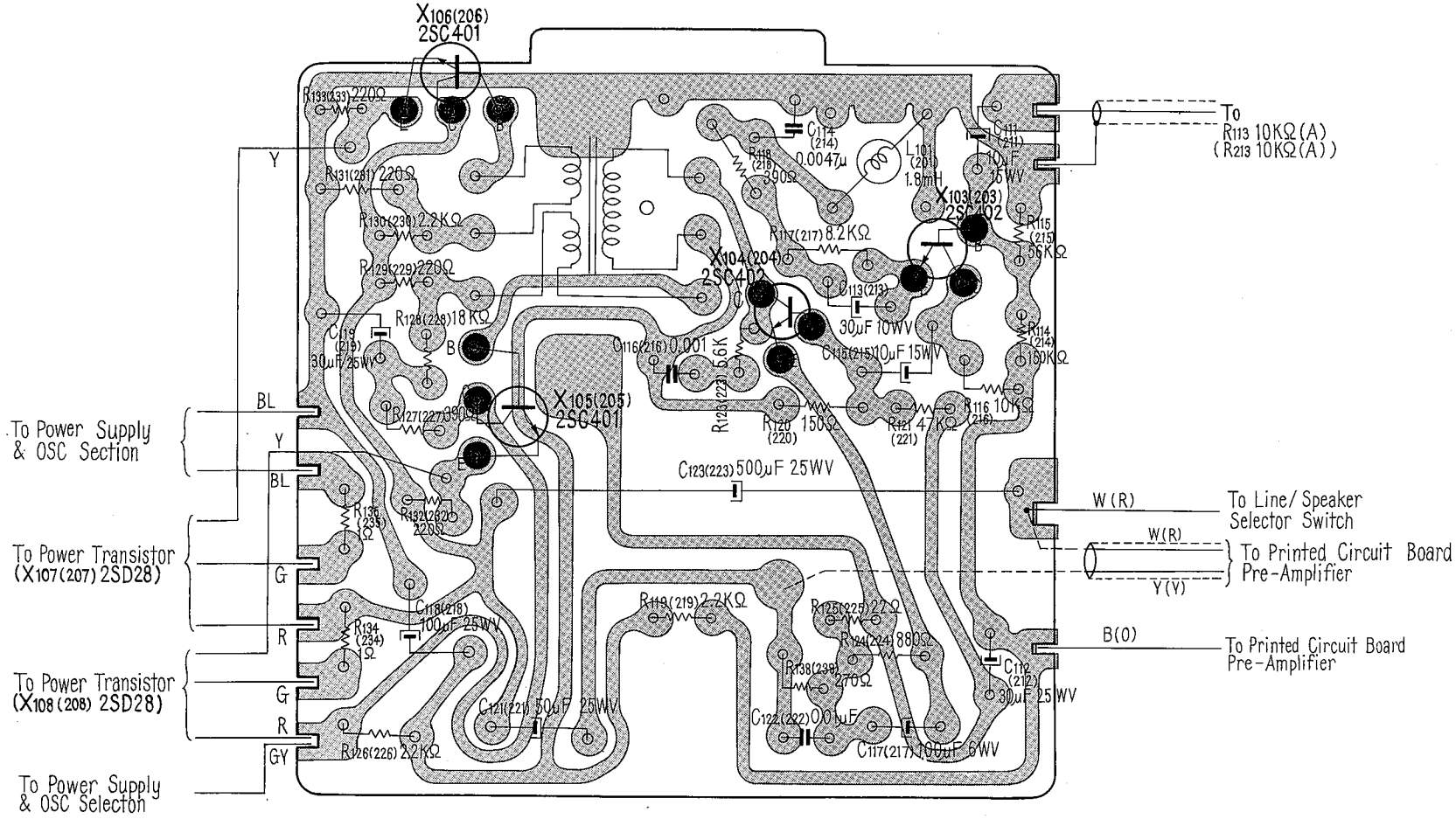
—Printed Side—



Mounting Diagram

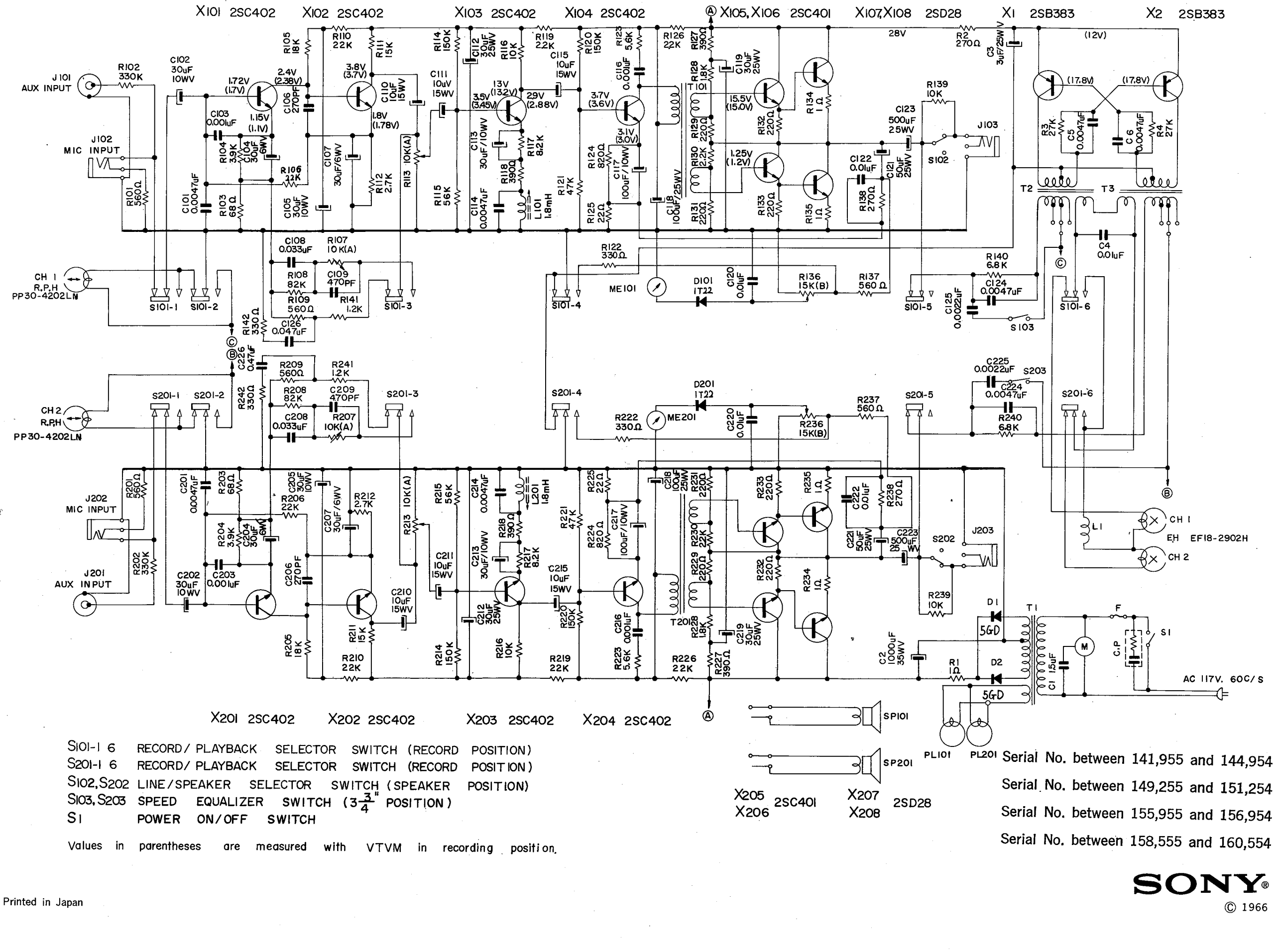
Main Amplifier

—Printed Side—



Channel—2 is same as channel—1

TC-200 Circuit Schematic



S101-1 6 RECORD/ PLAYBACK SELECTOR SWITCH (RECORD POSITION)
S201-1 6 RECORD/ PLAYBACK SELECTOR SWITCH (RECORD POSITION)
S102, S202 LINE/SPEAKER SELECTOR SWITCH (SPEAKER POSITION)
S103, S203 SPEED EQUALIZER SWITCH ($3\frac{3}{4}$" POSITION)
S1 POWER ON/OFF SWITCH

Values in parentheses are measured with VTVM in recording position.

Serial No. between 141,955 and 144,954
Serial No. between 149,255 and 151,254
Serial No. between 155,955 and 156,954
Serial No. between 158,555 and 160,554

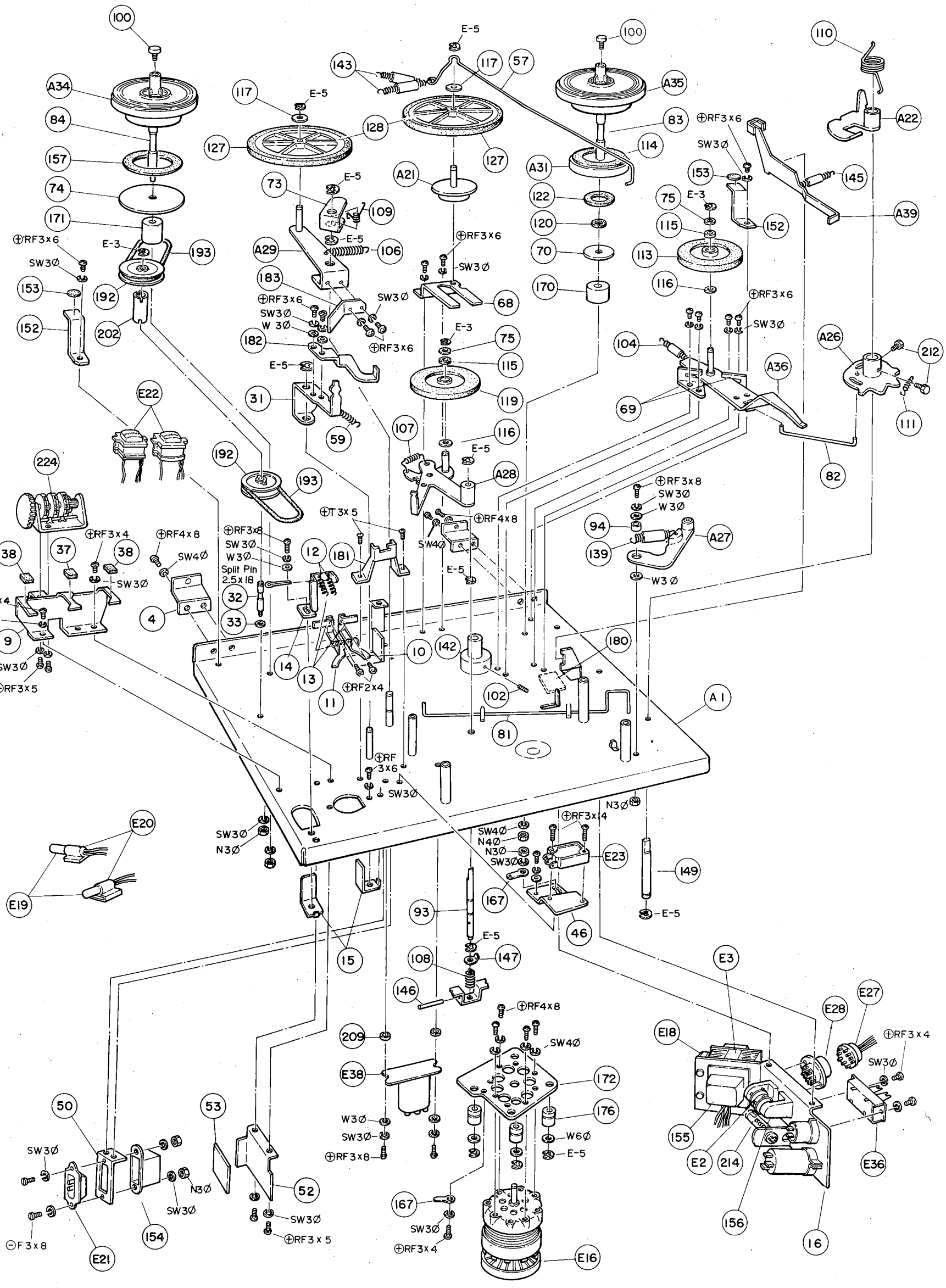
Printed in Japan

SONY®

© 1966

Serial No. from 75,000 to 80,000

Chassis —top view—



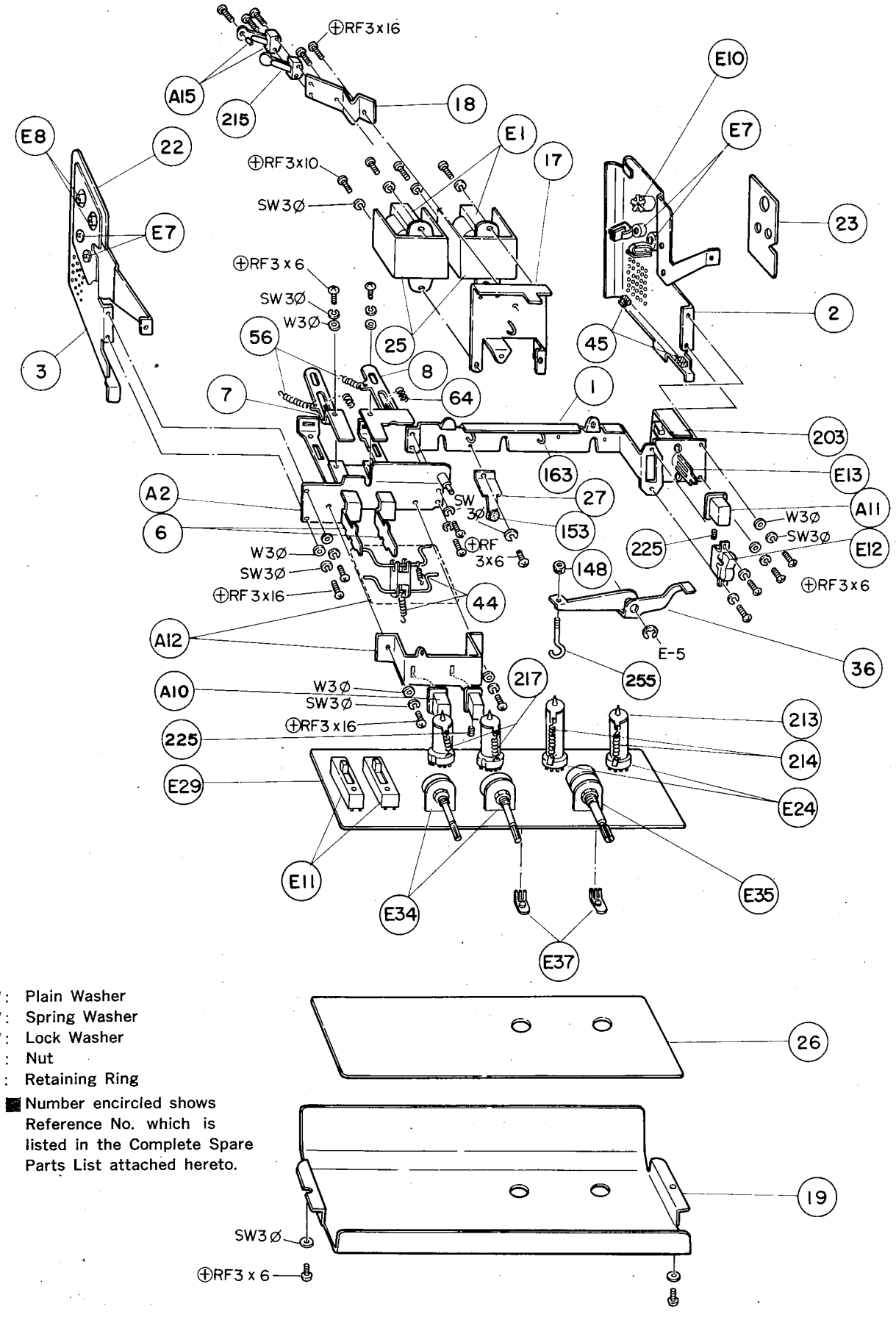
W: Plain Washer
SW: Spring Washer
LW: Lock Washer
N: Nut
E: Retaining Ring

■ Number encircled shows Reference No. which is listed in the Complete Spare Parts List attached hereto.

EXPLODED VIEW

Serial No. from 75,000 to 80,000

Mounted Circuit Board —top view—



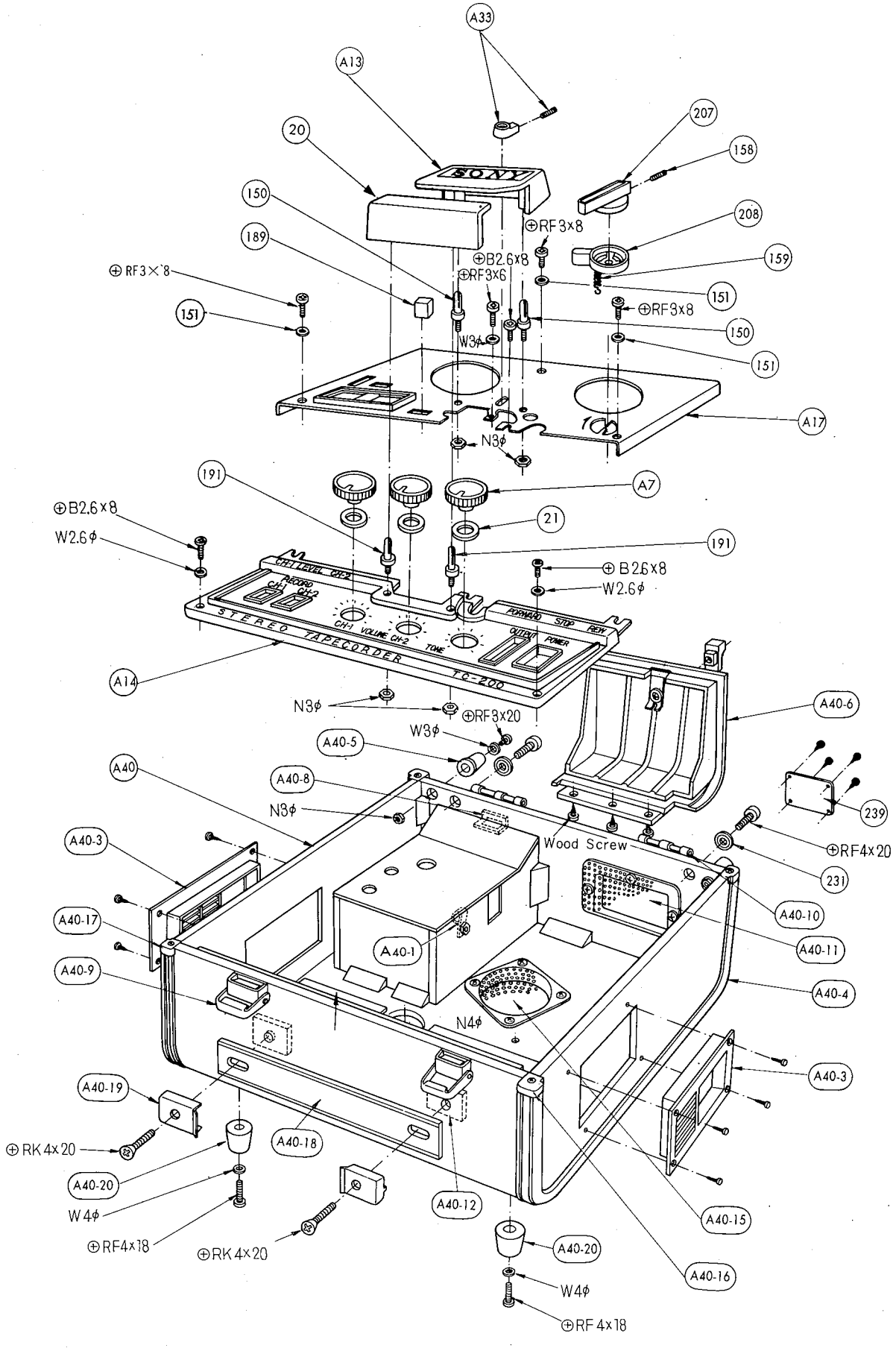
W: Plain Washer
SW: Spring Washer
LW: Lock Washer
N: Nut
E: Retaining Ring

■ Number encircled shows Reference No. which is listed in the Complete Spare Parts List attached hereto.

EXPLODED VIEW

Serial No. from 80,001 to 141,954

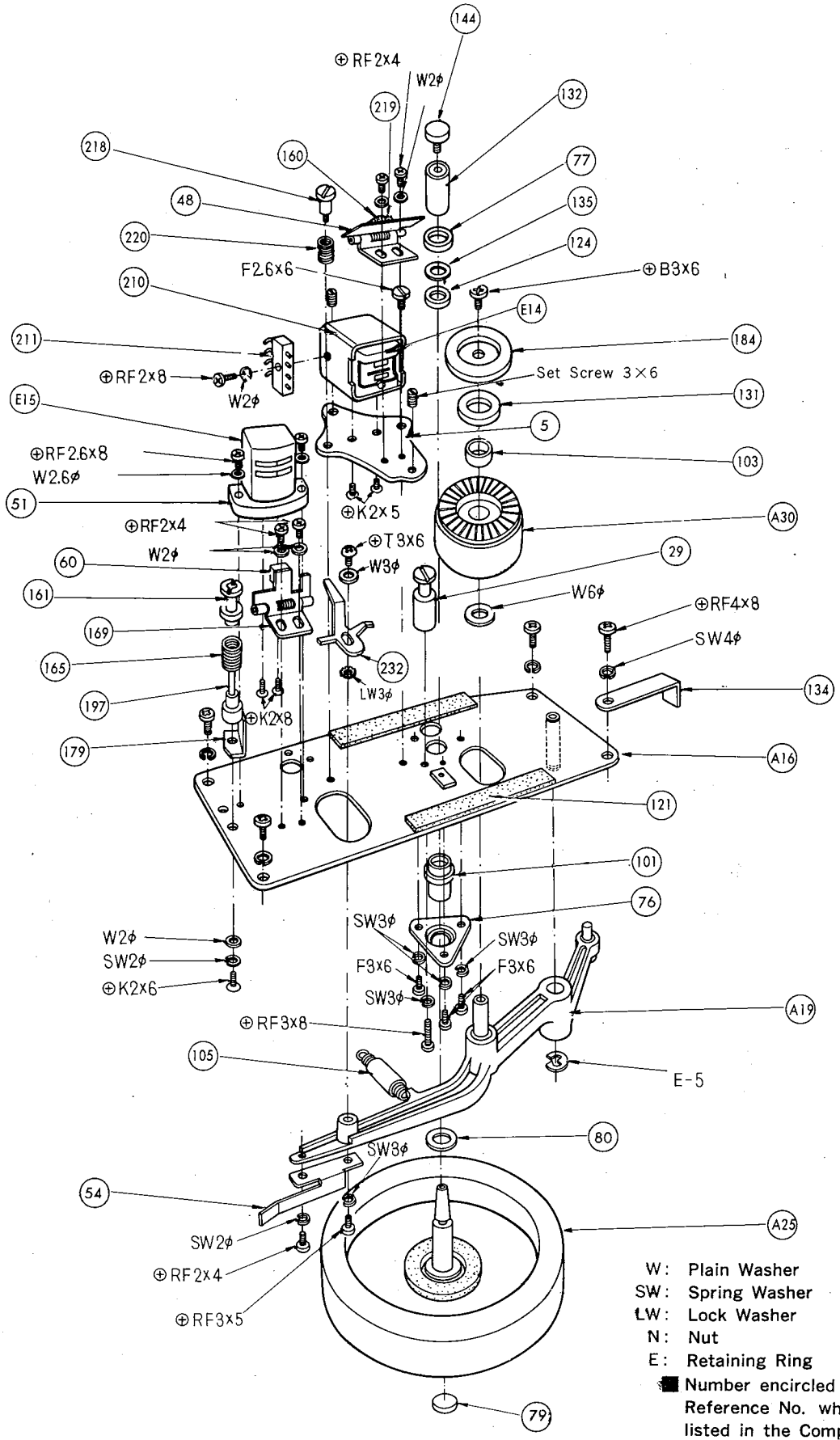
Cabinet —top view—



EXPLODED VIEW

Serial No. from 80,001 to 141,954

Head Deck —top view—

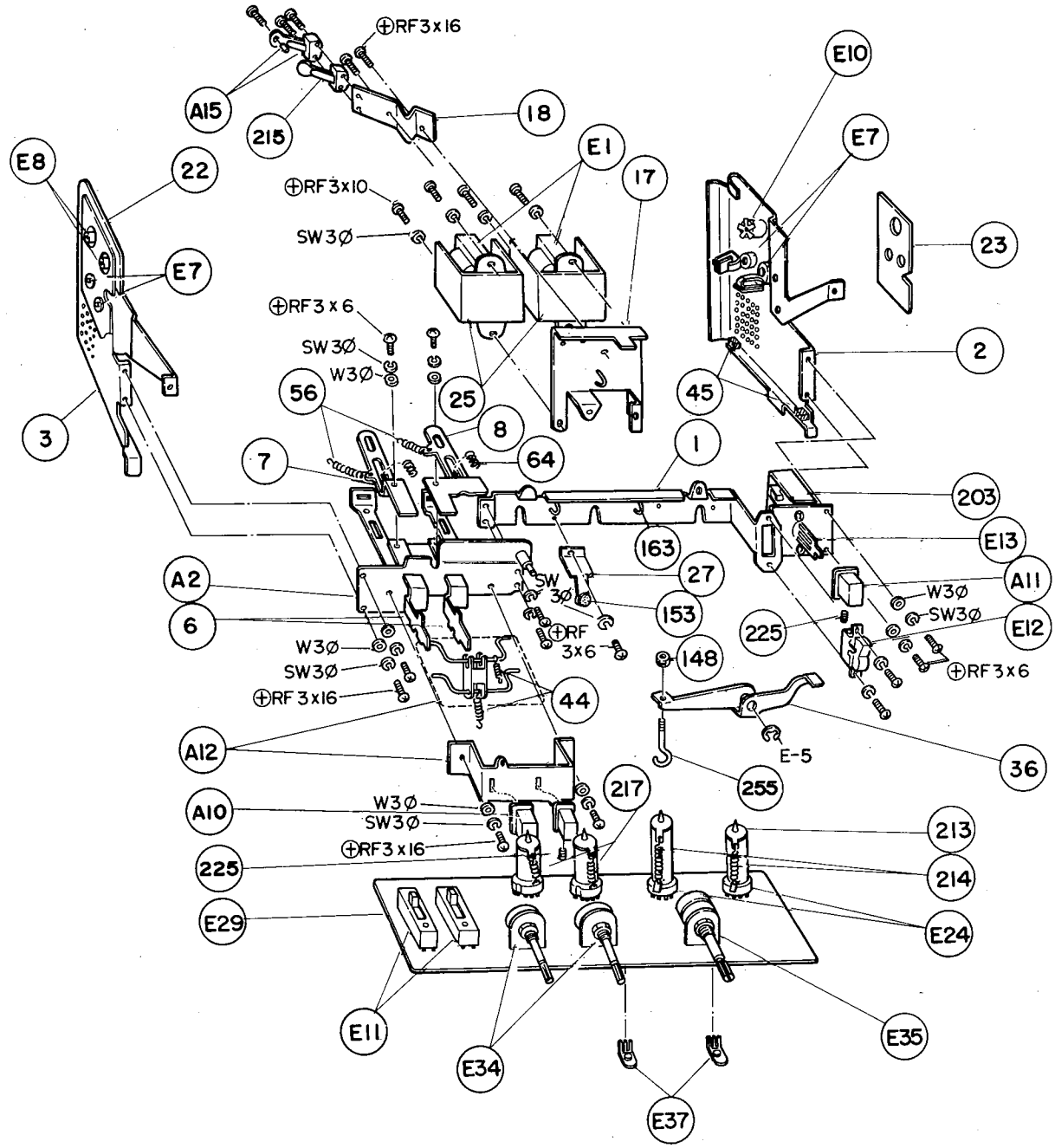


W: Plain Washer
SW: Spring Washer
LW: Lock Washer
N: Nut
E: Retaining Ring
■ Number encircled shows Reference No. which is listed in the Complete Spare Parts List attached hereto.

EXPLODED VIEW

Serial No. from 80,001 to 141,954

Mounted Circuit Board —top view—



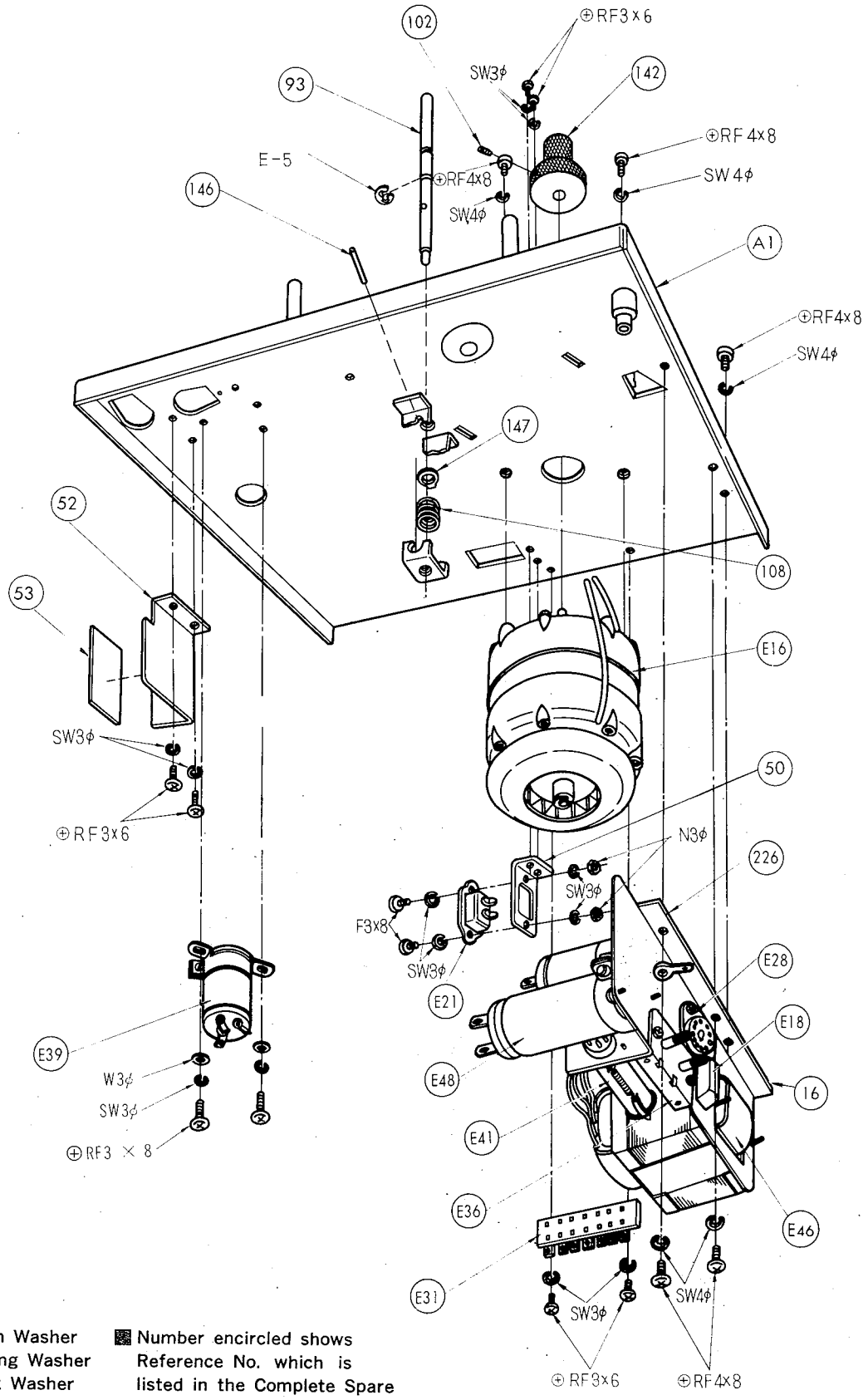
W: Plain Washer
SW: Spring Washer
LW: Lock Washer
N: Nut
E: Retaining Ring

■ Number encircled shows Reference No. which is listed in the Complete Spare Parts List attached hereto.

EXPLODED VIEW

Chassis —bottom view—

Serial No. from 80,001 to 141,954



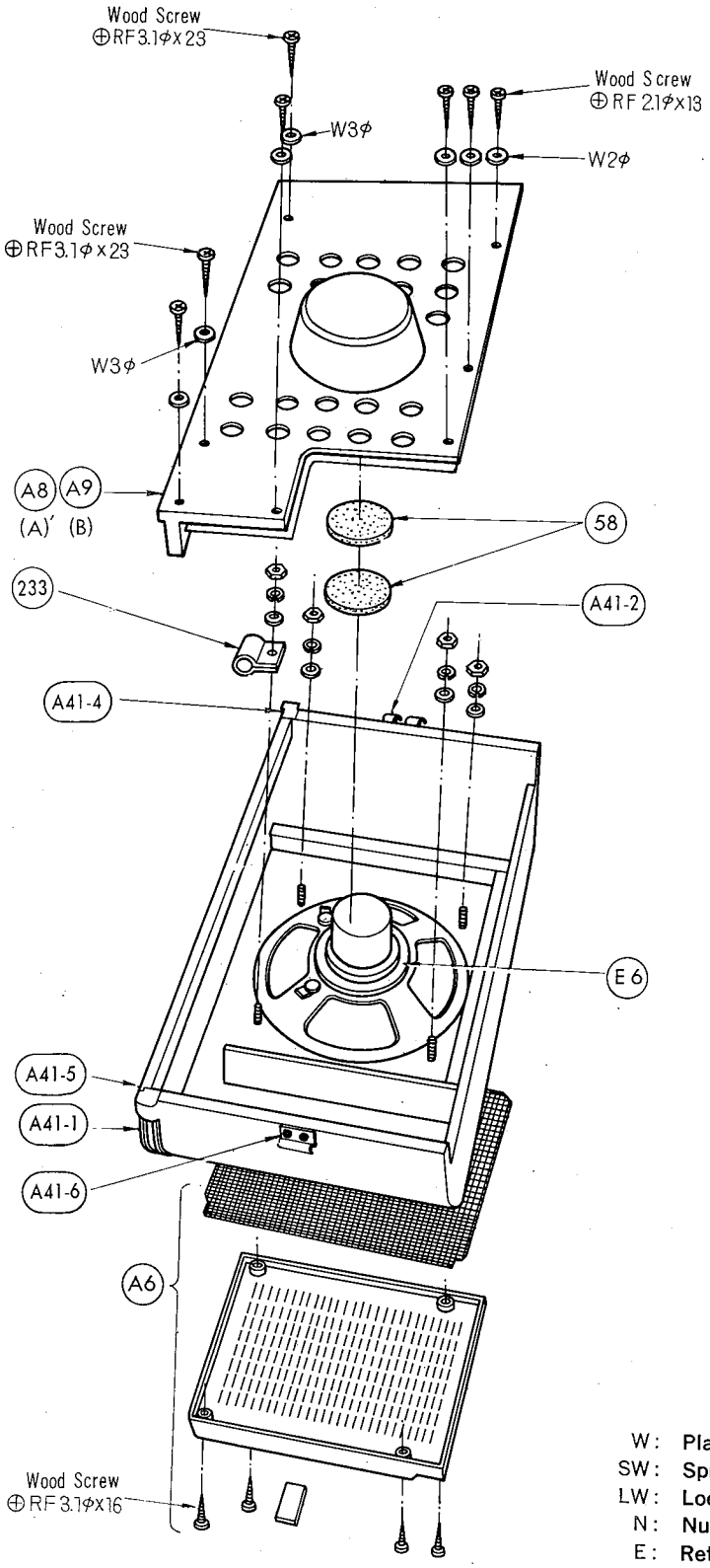
W: Plain Washer
SW: Spring Washer
LW: Lock Washer
N: Nut
E: Retaining Ring

■ Number encircled shows Reference No. which is listed in the Complete Spare Parts List attached hereto.

EXPLODED VIEW

Serial No. from 80,001 to 141,954

Cabinet Lid —top view—



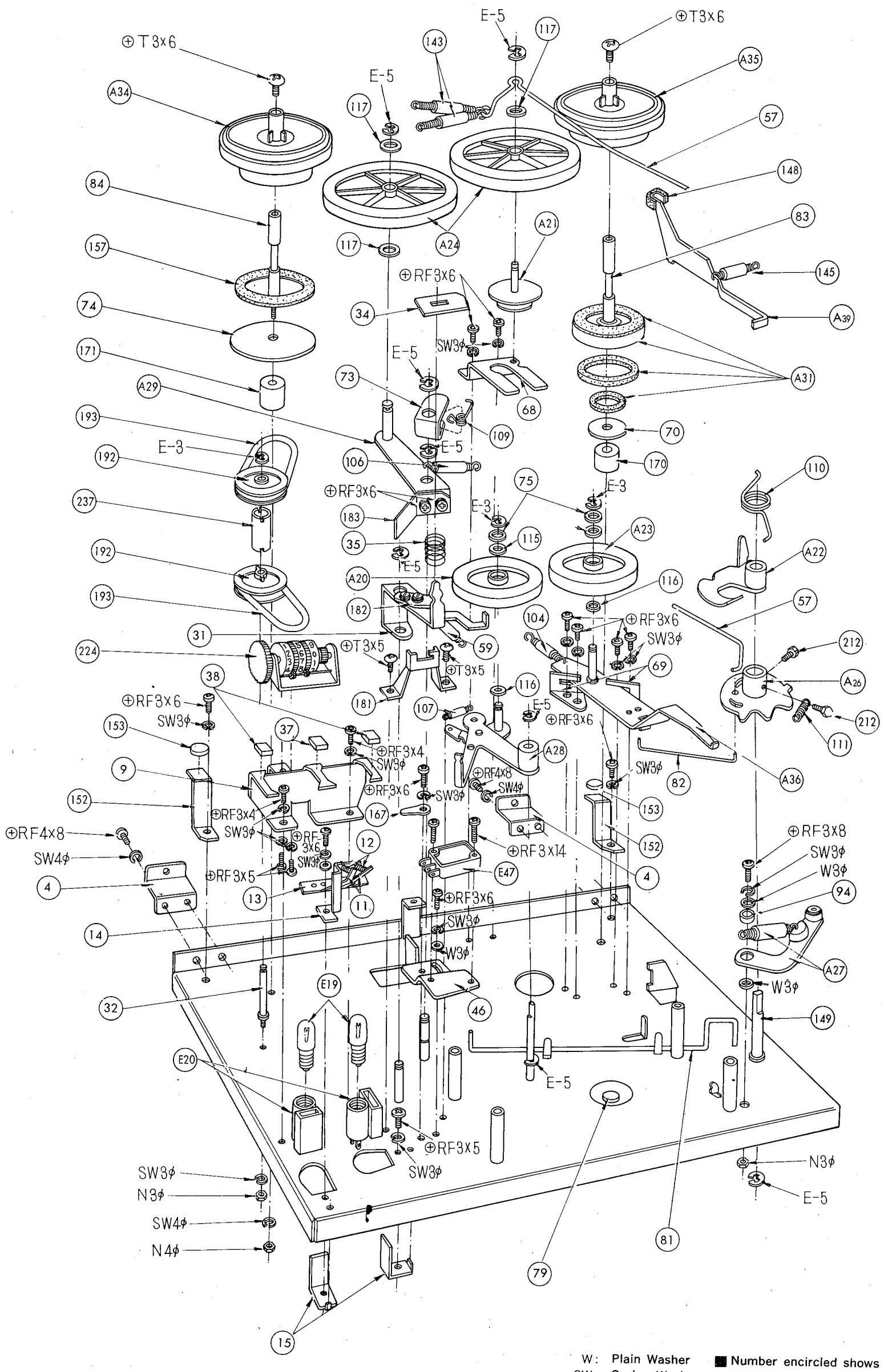
W: Plain Washer
SW: Spring Washer
LW: Lock Washer
N: Nut
E: Retaining Ring

■ Number encircled shows Reference No. which is listed in the Complete Spare Parts List attached hereto.

EXPLODED VIEW

Chassis –top view–

Serial No. from 80,001 to 141,954



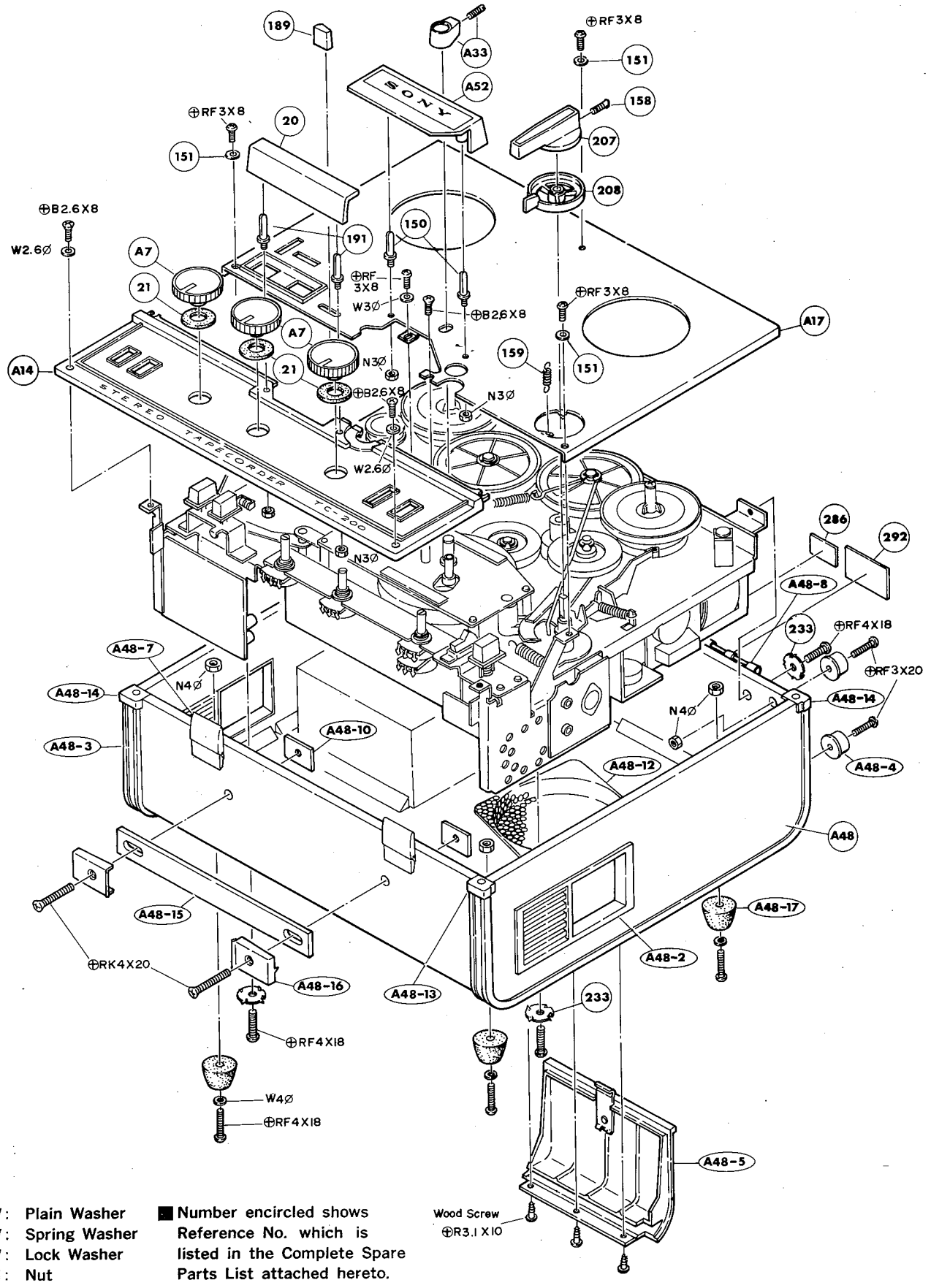
W: Plain Washer
SW: Spring Washer
LW: Lock Washer
N: Nut
E: Retaining Ring

■ Number encircled shows Reference No. which is listed in the Complete Spare Parts List attached hereto.

EXPLODED VIEW

Serial No. 141,955 and later

Cabinet —top view—



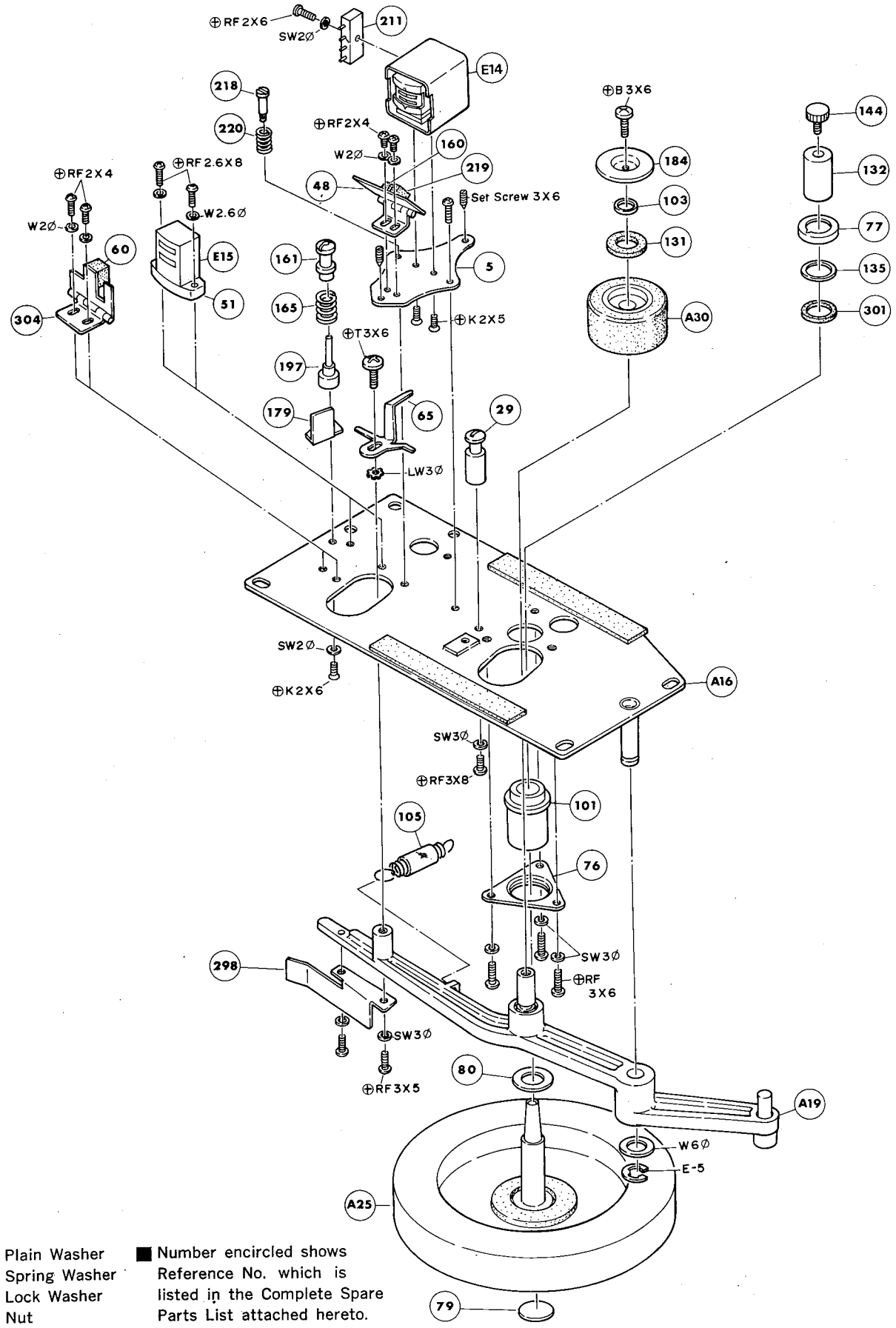
W: Plain Washer
SW: Spring Washer
LW: Lock Washer
N: Nut
E: Retaining Ring

■ Number encircled shows Reference No. which is listed in the Complete Spare Parts List attached hereto.

EXPLODED VIEW

Serial No. 141,955 and later

Head Deck —top view—



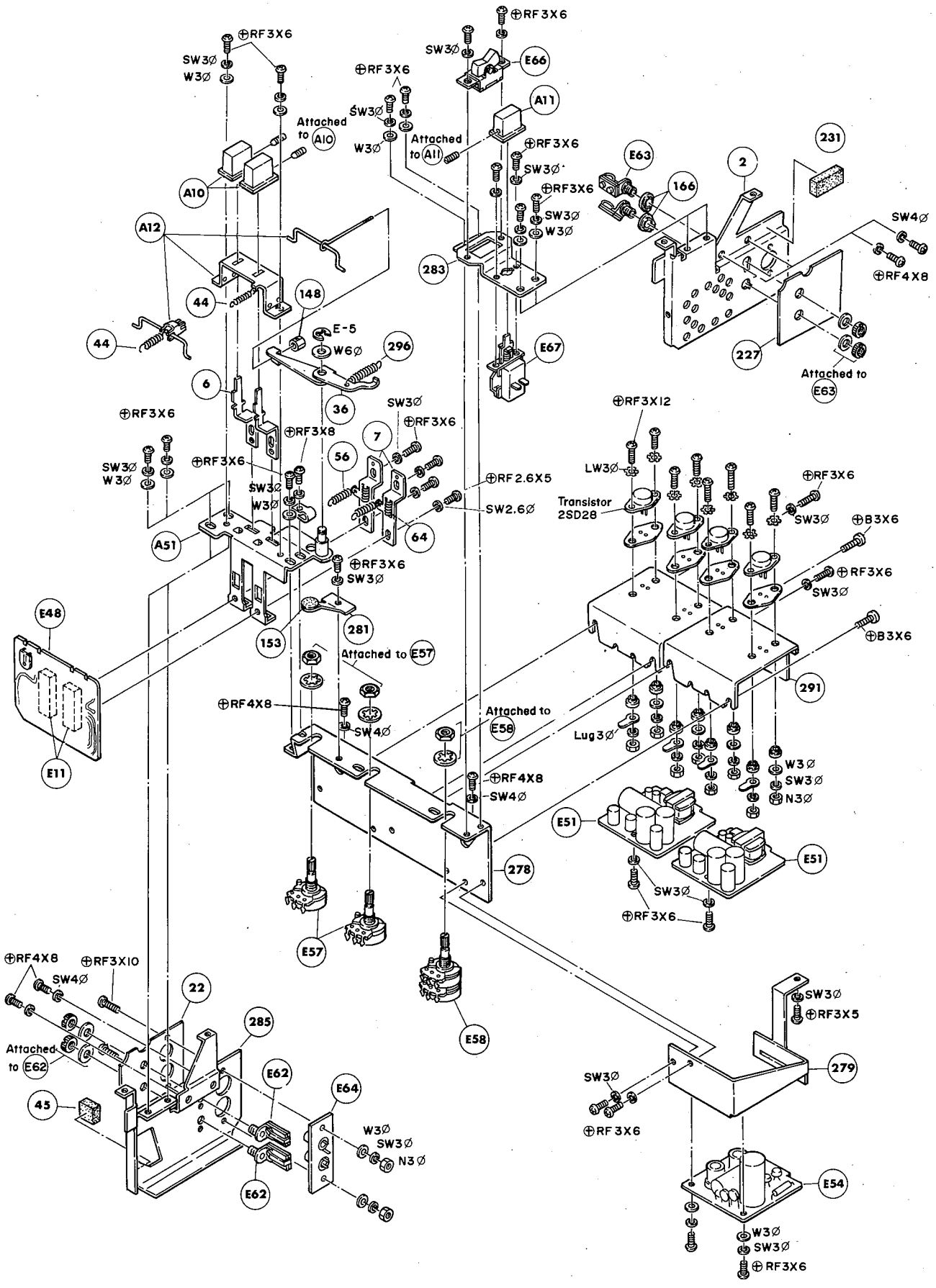
W: Plain Washer
SW: Spring Washer
LW: Lock Washer
N: Nut
E: Retaining Ring

■ Number encircled shows Reference No. which is listed in the Complete Spare Parts List attached hereto.

EXPLODED VIEW

Serial No. 141,955 and later

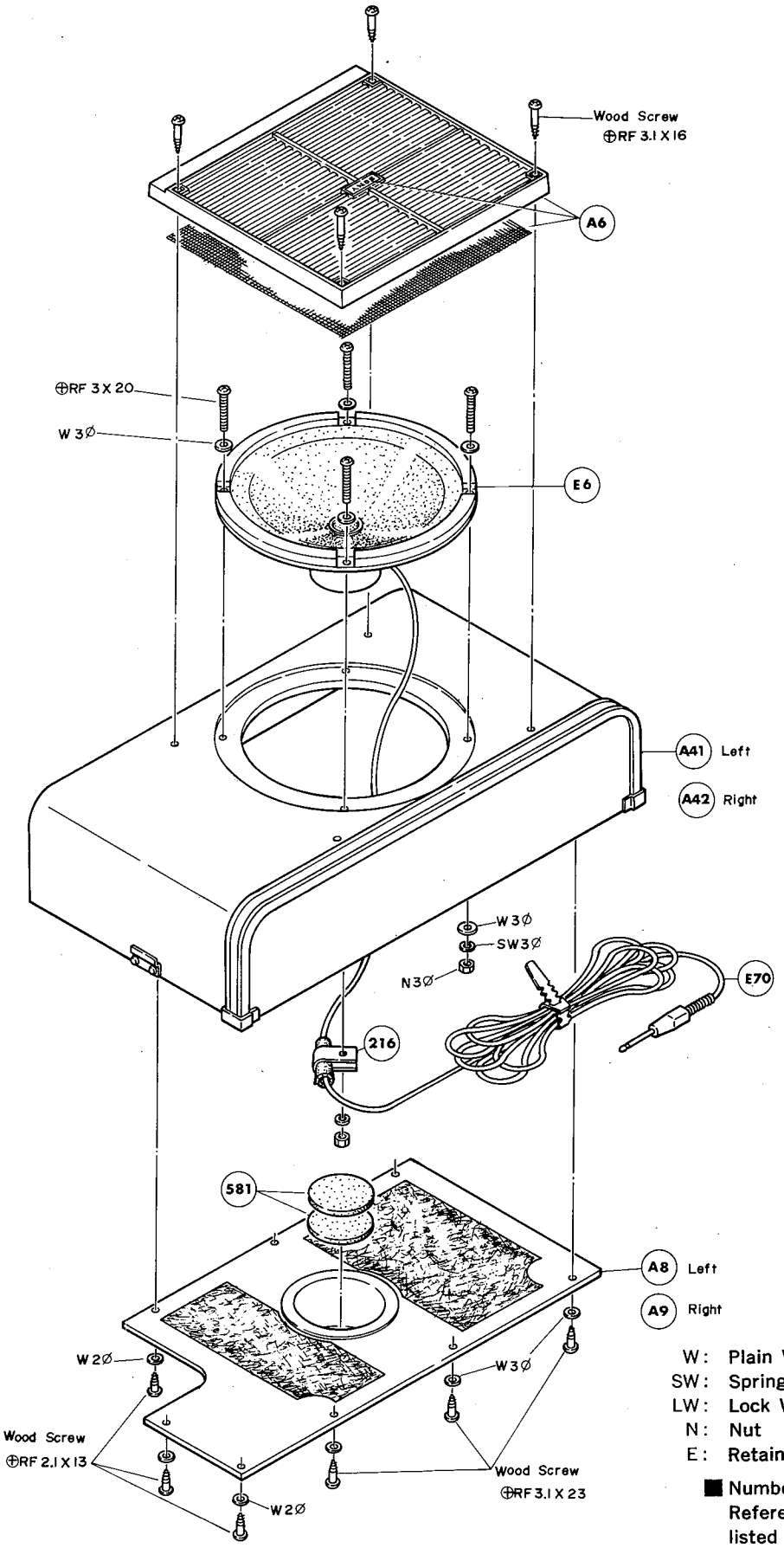
Mounted Circuit Board —top view—



EXPLODED VIEW

Serial No. 141,955 and later

Cabinet —top view—

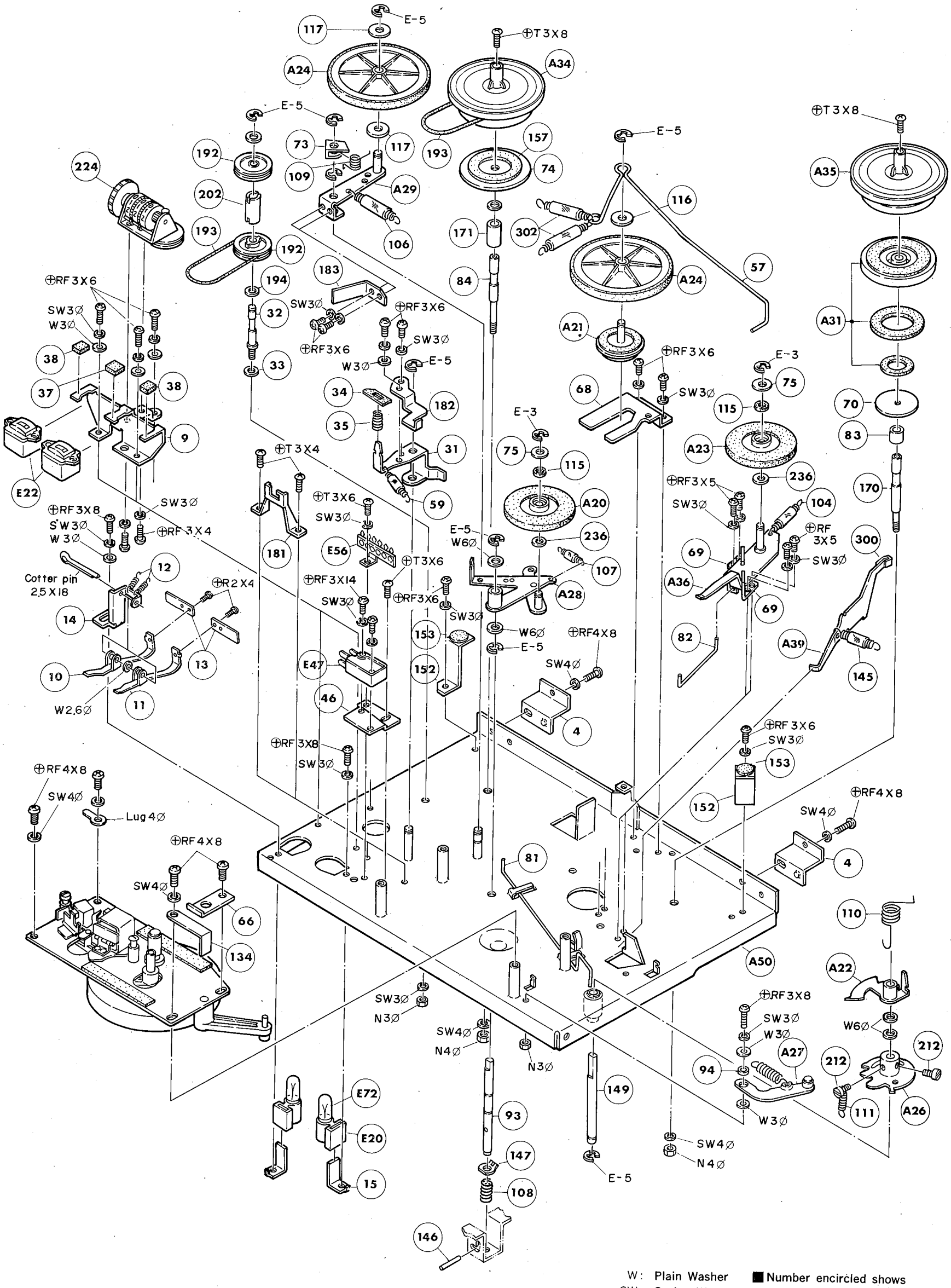


W: Plain Washer
SW: Spring Washer
LW: Lock Washer
N: Nut
E: Retaining Ring

■ Number encircled shows Reference No. which is listed in the Complete Spare Parts List attached hereto.

Chassis —top view—

Serial No. 141,955 and later



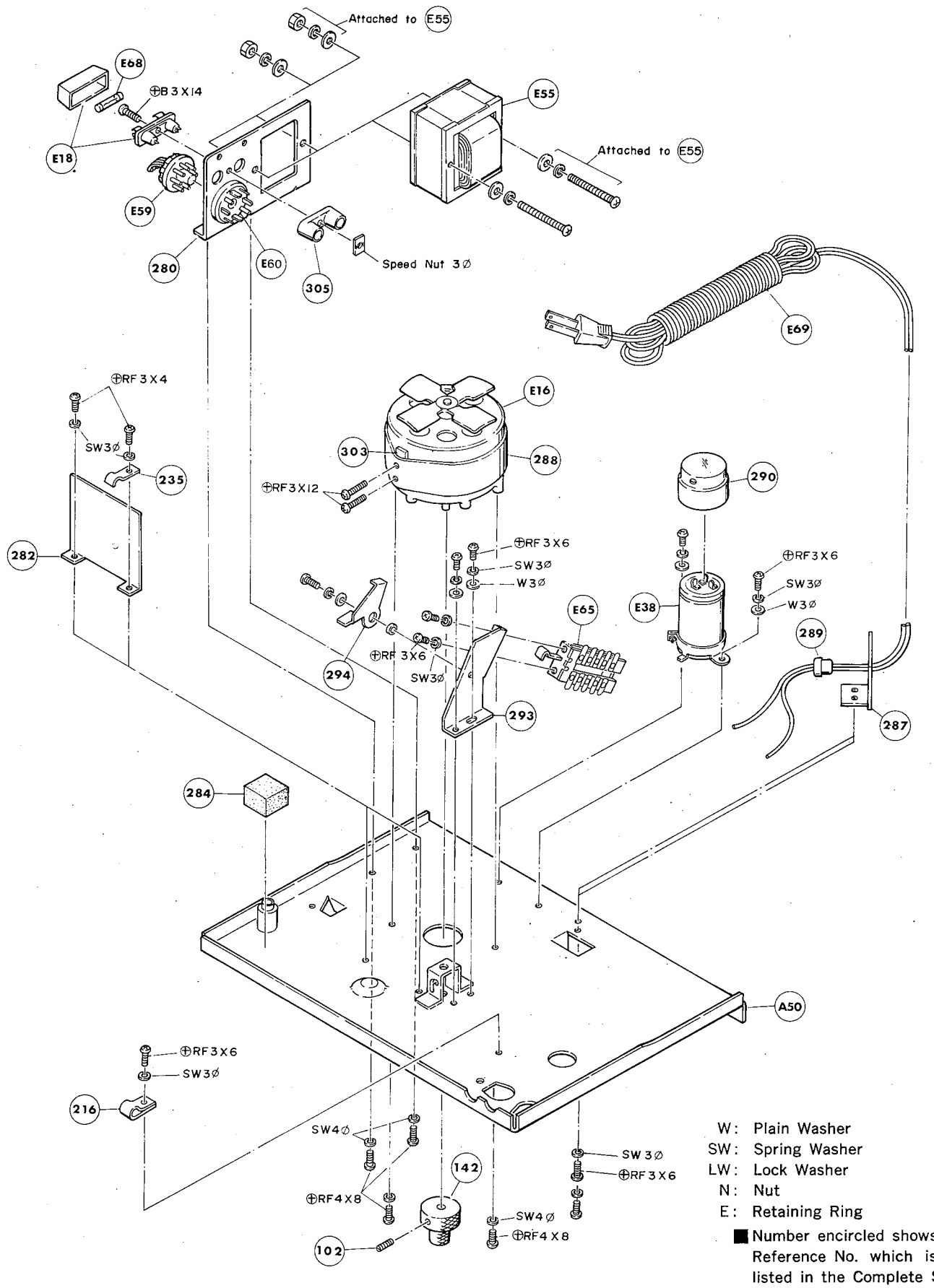
W: Plain Washer
SW: Spring Washer
LW: Lock Washer
N: Nut
E: Retaining Ring

■ Number encircled shows Reference No. which is listed in the Complete Spare Parts List attached hereto.

EXPLODED VIEW

Serial No. 141,955 and later

Chassis —bottom view—



W: Plain Washer
SW: Spring Washer
LW: Lock Washer
N: Nut
E: Retaining Ring
■ Number encircled shows Reference No. which is listed in the Complete Spare Parts List attached hereto.

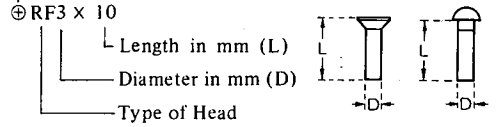
— Hardware Nomenclature —

RF	– Pan Head Screw	
K	– Flat Countersunk Head Screw	
B	– Binding Head Screw	
RK	– Oval Countersunk Head Screw	
T	– Truss Head Screw	
R	– Round Head Screw	
F	– Flat Fillister Head Screw	
SC	– Set Screw	

E – Retaining Ring (E Washer)

W – Washer
SW – Spring Washer
LW – Lock Washer
N – Nut

— Example —



When ordering replacement parts you should use PART NUMBER listed on the Complete Spare Parts List attached herewith.
The reference number or symbol number should not be used for ordering purposes.

SONY CORPORATION

9G0667-1

Printed in Japan